



Test Monitoring Center

Carnegie Mellon University
6555 Penn Avenue, Pittsburgh, PA 15206, USA

<http://astmtmc.cmu.edu>
412-365-1000

May 7, 2013

To Participants of the ASTM International Light Duty Rating Workshop:

The ASTM International Light Duty Rating Workshop was held on April 16-18, 2013 in San Antonio, TX. Enclosed are the minutes for the workshop and a copy of all of the data generated.

We would like to take this opportunity to thank you for your participation in this workshop. It is the full participation of the entire rating community that allows the rating methods of Manuals 20 and 21 to be the vital industry tools that they are. The input of each and every rater is a valued component of that tool. Any feedback on improving the workshop is welcome.

Sincerely,

Michael T. Kasimirsky
Workshop Coordinator

Notes on the Data

Following is the data produced during the April 16-18, 2013, ASTM International Light Duty Rating Workshop.

Some of the evaluation techniques are destructive and, therefore, do not easily allow repeated measurement (measurable sludge deposits, ring sticking, carbon probing, and parts wiping for example). Every effort is made to limit the destructive impact of repeated measurement of these deposits but repeatability and reproducibility cannot help but be adversely affected. This must be a consideration when reviewing data from deposits of this type.

The statistics presented include the data from all parts (including calibration parts and practical application parts) and all participants (including novice, field, and standardized engine test raters). It is important to have some knowledge of the raters involved when comparing results.

ASTM International strives to make this data useful to as broad a range of industry consumers as possible, however it is primarily intended to provide guidance to workshop participants. ASTM International endorses its use for no other purpose.

Light Duty Rating Workshop

April 16-18, 2013

San Antonio, Texas

Tuesday, April 16, 2013

The workshop began at 8:05am with 31 raters in attendance (see sign-in sheet). Michael Kasimirsky gave some opening remarks on the format of the workshop. Special thanks were given to both Tony Barrera and Bobby Trevino of Intertek Automotive Research for all their help in gathering the parts used at the workshop.

The format and room layouts of the workshop were reviewed, along with parts assignments and computer access instructions. Raters were also asked to confirm they received the correct serial-numbered Rust/Varnish/Lacquer Rating Scale and Sludge Depth Scale in their workshop materials.

The group then reviewed the various definitions of rubbed and non-rubbed carbon deposits and how those levels are determined. Light, Medium, and Heavy Carbon definitions were also reviewed, as was the proper merit ratings for "clean" parts.

Prior to starting the Preliminary Exercise, the raters were reminded to not touch or remove the deposits found on the parts in any way during the rating process. This includes touching or picking at carbon deposits with a pencil or other probe. Raters were also asked to leave the rating caps attached to the pistons at all times, since removal and reinstallation can chip carbon deposits present on the piston.

At 8:45am, the group began rating the Preliminary Exercise.

At 11:45am, the group adjourned for lunch.

At 12:15pm, the group returned to finish up the rating of the Preliminary Exercise.

At 2:05pm, the group reviewed the Preliminary Exercise rating data.

At 3:45pm, the group began rating the Practical Application exercise.

At 5:30pm, the group adjourned for the evening.

Wednesday, April 17, 2013

Rating of the Practical Application exercise parts continued all day, with a break for lunch at 11:45am. The room was opened at 6:15am and closed at 5:15pm for the day.

Thursday, April 18, 2013

The room was opened for rating at 6:15am and the group finished rating the Practical Application exercise parts.

At 11:45am, the group adjourned for lunch.

At 12:15pm, the group returned to finish up the rating of the Preliminary Exercise.

At 1:00pm, the group reviewed the Practical Application exercise data.

At 4:30pm, the workshop concluded.

Light Duty Rating Workshop

April 16-18, 2013

San Antonio, Texas

Discussions

Data Screening

After the workshop, the data was reviewed as part of the process of preparing the Final Report for the workshop. During that review, several individual ratings were removed from the data set prior to the final analysis and BRW color codes being generated. The individual rating results that were removed are detailed below:

On piston CAL-T, Vernon Kraemer's ratings were removed from the analysis. His rating results on Lands 2 & 3 were -2.65 and 4.13 standard deviations from the mean value for that location. Both of these results are considered "rare events" and indicate that the correct part of the piston was not rated. As a result, this data was not included in the Light Duty Piston Deposits BRW Group calculation.

On piston B1, Paul Greenland's ratings were removed from the analysis. His rating results on Groove 3 and the Undercrown were -3.54 and -3.13 standard deviations from the mean value for that location. Both of these results are considered "rare events" and indicate that the correct part of the piston was not rated. As a result, this data was not included in the Light Duty Piston Deposits BRW Group calculation.

On piston L1, Jesus Rodriguez's ratings were removed from the analysis. His rating result on Land 2 was 2.81 standard deviations from the mean value for that location. This result is considered a "rare event" and indicates that the correct part of the piston was not rated. This piston was not included in the Light Duty Piston Deposits BRW Group calculation, so this data screening had no impact on the BRW Group calculations.

Induction & Combustion Deposit Rating BRW Group results – Revision to the Final Report

The initial version of the Workshop Final Report had Induction Deposit Rating and Combustion Deposit Rating analyzed as separate procedures in the final BRW Group analysis. It was pointed out that these two rating techniques use the same procedures and should have been combined in the analysis. The Workshop Final Report was revised to reflect this fact, with only one BRW Group being published for Induction & Combustion Deposits.

Rating Booth Lighting Survey

Work is continuing on the effort to clarify the rating booth lighting requirements listed in TMC Manual 20. A survey was distributed amongst workshop participants in the past, but it was subsequently determined that the survey did not gather all the necessary information required to resolve this issue.

An additional survey is being prepared, one that includes actual light measurements from the existing rating booths in use in industry, and the TMC plans to supplement this activity with data gathered during lab visits.

Once that activity is completed, the data will be summarized and returned to the ASTM Deposit/Distress Rating Methods Advisory Panel for their consideration and action.

Light Duty Rating Workshop

April 16-18, 2013

San Antonio, Texas

Future Workshops

The next Heavy Duty Rating Workshop will be held on October 8-10, 2013, at this same location. The next Light Duty Rating Workshop will be held on April 8-10, 2014, at this same location.

Contact Information for TMC Manuals 20 & 21 and other rating scales and aids:

Yvonne Reese
ASTM International
100 Barr Harbor Drive
West Conshohocken, PA 19428
phone: (610) 832-9570
fax: (610) 834-7078
email: yreese@astm.org

Light Duty Rating Workshop 2013

Sign-In Sheet

Adams, Patrick

Patrick Adams

Aguirre, Nancy P

Nancy P Aguirre

Avis, Steven

Steve Avis

Barrera, Tony

Tony Barrera

Cales, Jonathon

Jonathon Cales

Caproni, David

David Caproni

Castillo, George

George Castillo

Cumberworth, Lee

Lee Cumberworth

Foecking, Brian

Brian Foecking

Greenland, Paul

Paul Greenland

Hills, Barry

Barry Hills

Hurst, Kevin R.

Kevin R Hurst

Kobrinetz, Joaquin J.

Joaquin J Kobrinetz

Kraemer, Vernon

Vernon Kraemer

Lonsway, Chris

Chris Lonsway

Lopez, Frank

Frank Lopez

Lowry, Shannon

Shannon Lowry

Lowsky, John

John M Lowsky

May, Marianne

Marianne May

Millward, Glen

Glen Millward

Potocar, William P

William P Potocar

Rodriguez, Jesus (Jesse)

Jesse Rodriguez

Sanchez, Arthur

Arthur Sanchez

Swanson, Dennis

Dennis Swanson

Trevino, Bobby

Bobby Trevino

Veiga, Victor

Victor Veiga

Viera, Ralph B.

Ralph B. Viera

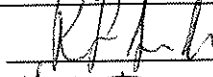
Zalewski, John

John Zalewski

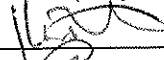
Light Duty Rating Workshop 2013

Sign-In Sheet

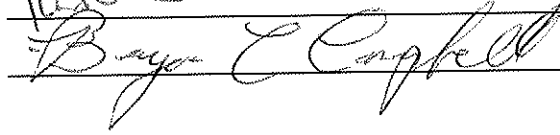
Seiz, Ray



Terrado, Ken



Campbell, Bryan



Light Duty Rating Workshop 2013

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Aguirre, Nancy P

Nancy P Aguirre

Avis, Steven

Steven Avis

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Tony Barrera

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Jonathon Cales

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David Caproni

Castillo, George

George Castillo

Cumberworth, Lee

Lee Cumberworth

Foecking, Brian

Brian Foecking

Greenland, Paul

Paul Greenland

Hills, Barry

Barry Hills

Hurst, Kevin R.

Kevin R Hurst

Kobrinetz, Joaquin J.

Joaquin J Kobrinetz

Kraemer, Vernon

Vernon Kraemer

Lonsway, Chris

Chris Lonsway

Lopez, Frank

Frank Lopez

Lowry, Shannon

Shannon Lowry

Lowsky, John

John M Lowsky

May, Marianne

Marianne May

Millward, Glen

Glen Millward

Potocar, William P

William P Potocar

Rodriguez, Jesus (Jesse)

Jesus Rodriguez

Sanchez, Arthur

Arthur Sanchez

Swanson, Dennis

Dennis Swanson

Trevino, Bobby

Bobby Trevino

Veiga, Victor

Victor Veiga

Viera, Ralph B.

Ralph B. Viera

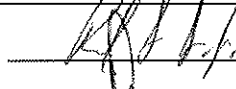
Zalewski, John

John Zalewski

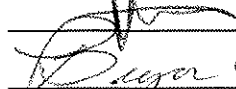
Light Duty Rating Workshop 2013

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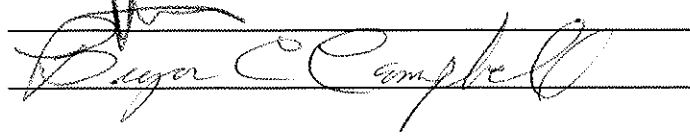
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Jesus Rodriguez

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Victor Veiga

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Ralph B. Viera

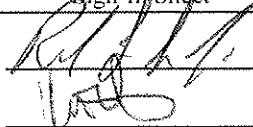
Zalewski, John

John Zalewski

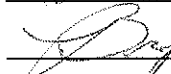
Light Duty Rating Workshop 2013

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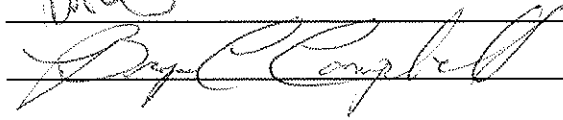
Seiz, Ray



Terrado, Ken



Campbell, Bryan



Light Duty Rating Workshop

- Please sign in and pick up your rating scales packet.
- Rating Worksheets are at the back of the room.



Light Duty Rating Workshop

April 2013



Volunteers

- Thank you to Tony Barrera, Bobby Trevino, and the entire Intertek Staff for their support!



Rating Workshop Server Info

- To access the workshop server, access the wireless network called “Rating Workshop”
- Workshop Web Address: <http://192.168.2.8/>
- Enter your *username* (printed in red on the summary page in your packet) in the “password” field on the entry screen. [Leave “TMC” in other field.]
- Make sure Internet Explorer is using “compatibility mode” before you start entering data.
- If individual ratings do not auto-calculate, **stop and get help before entering additional data!**



New Rating Scales

- New Rust/Lacquer/Varnish scale included.
- New Sludge Rating Photo scale included.
- Please verify the serial number of both scales in your packet against the numbers listed on the summary page in your packet.
- *Rating Worksheets are not included in the packet, but are available on a table at the back of the room.*



Rating Manuals

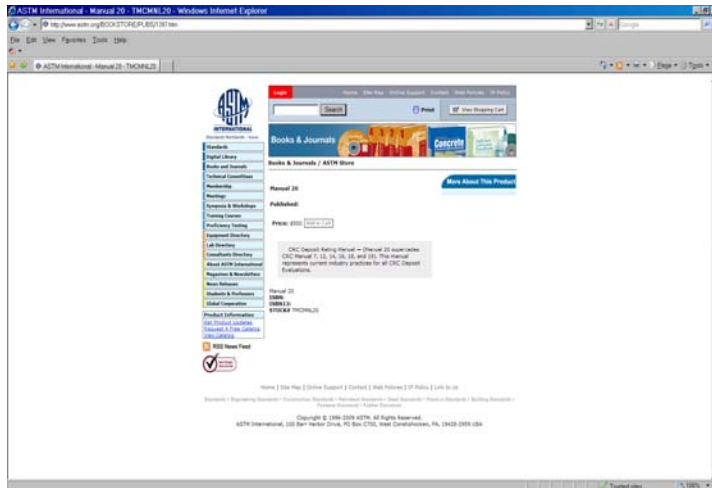
ASTM Headquarters supplies:

- TMC Manual 20 – Deposits
- TMC Manual 21 – Distress
 - Scales included

Go to : WWW.ASTM.ORG



Rating Manuals 20 & 21



Workshop Format

- Preliminary Exercise
 - Sludge Parts
 - Two Rocker Cover Baffles
 - Varnish Parts
 - Four “Composite” Seq. III Pistons
 - Four sets of “calibration” Seq. V pistons (4 pistons)
 - Two Rocker Cover Baffles
 - One “Composite” DV4 Diesel piston
 - One “Composite” Field Piston
 - Intake Valves & Piston Tops (2 of each)
- Data Review & Discussion



Workshop Format (Continued)

- Practical Application
 - Piston Deposits
 - Fifteen Sequence III pistons
 - Six Square-cut Diesel
 - Three DV4 Pistons
 - Three Field Test Pistons
 - One Specialty Piston
 - Piston Skirt Varnish
 - Four Sequence V piston sets (8 pistons per set)
 - Engine Varnish
 - Right & Left Rocker Cover Baffle



Workshop Format (Continued)

- Practical Application (continued)
 - Engine Sludge (Seq. V)
 - Right & Left Rocker Cover
 - Right & Left Rocker Cover Baffle
 - Timing Chain Cover
 - Oil Pan & Oil Pan Baffle
 - Right & Left Valve Deck
 - Induction & Combustion
 - Piston Tops (8)
 - Intake Valves (3 sets of 8 valves)
 - Sludge & Debris
 - Seq. V Oil Screen
- Data Review & Discussion



Parts Assignments

- Preliminary Exercise
 - Two “Composite” Seq. III pistons
 - Two set of Sequence V pistons
 - One “Composite” DV4 piston
 - One “Composite” Field piston
- Practical Application
 - One Set of “Lettered” parts (A, B, C)
 - Five Seq. III Pistons
 - Two Square-Cut Diesel Pistons
 - One Field Piston
 - Two Sets of Sequence V Pistons (8 pistons per set)
 - Two DV4 pistons
 - One Specialty piston



Parts Assignments (cont.)

- Parts assignments are the minimum required.
- Additional ratings are always advantageous.
- You're always free, and encouraged, to rate additional parts, if time allows.



Review of CRC Manual 20 Rating Fundamentals

- Deposit – Any presence of material that has **intensity (color)** or **depth**. Deposits can occur on any internal engine, driveline or fuel system component due to the interaction of lubricant and/or fuel with the respective part.
 - Deposits can be rated as:
 - Carbon
 - Varnish
 - Sludge
 - Rust*
- Non-Carbon Deposits
- * Rust is a special case of corrosion which will always deteriorate or alter the original surface condition.



Manual 20 (Page 77 Excerpts)

- **Deposit** – Any presence of material that has intensity (color) or depth. Excluding corrosion.
- **Varnish** – Has very little depth and a hard satin sheen or lustrous surface, most readily definable by color intensity.
- **Carbon** – Definable by thickness or volume and texture. It is usually non-lustrous, except when rubbed smooth between adjoining parts. It can be any color and is not limited to black, brown, or gray.
- **Merits** – Where 10.0 represents the absence of deposits (clean) and maximum deposit equals 0.0



Scale

- **Merits** – Where 10.0 represents the absence of deposits (clean) and maximum deposit equals 0.0



CRC Manual 20 “Clean” Search

1. The CRC Sludge Depth Scale defines clean as “the absence of deposit” other than normal oil film Page 23.
2. The CRC Rust/Varnish/Rubbed Carbon Rating Scale is a continuous merit scale, ranging from 10.0 which is clean (the absence of deposits) to 0.0 which represents maximum deposits (heavy rubbed deposits, or those deposits that fill all of the available space between mating or adjoining hardware and display a rubbed or polished appearance) page 50.
3. As a practical matter, there is no upper “clean limit” on a part run in an engine. The “rule of thumb” that any used part can’t rate higher than 9.xx merits has no basis in the Rating Manual.



Deposits Types

- **Varnish** – Has very little depth and a hard satin sheen or lustrous surface, most readily definable by color intensity.
- **Carbon** – Definable by thickness or volume and texture. It is usually non-lustrous, except when rubbed smooth between adjoining parts. It can be any color and is not limited to black, brown, or gray.



Varnish & Rust

- Rust and varnish normally have only intensity; however, deposit thickness will increase with intensity.
- The intensity factor is not intended to reflect the color of the surface.
- Three scales are used as a guide in establishing an intensity number which is independent of the original surface color ^{Page 19}.



Carbon Definitions

- Carbon – Two General Types
 - Non-Rubbed Carbon Deposits - those carbon deposits that can form in and on those pieces of hardware that do not move or do not have motion relative to a mating or adjoining surface. Examples may include, but are not limited to, induction systems, combustion chambers, and piston tops.
 - Rubbed Carbon Deposits – those carbon deposits that can form in and on those pieces of hardware whose motion is relative to a mating or adjoining surface and whose clearance tolerances are such that the deposits can fill all of the available space.

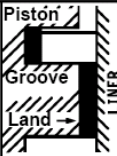
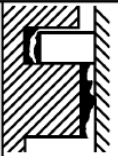

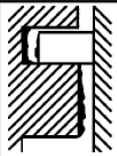



Carbon & Sludge Page 19

- Carbon and sludge are rated by their depth.
- Rubbed carbon depth is limited by the clearance between the parts on which it exists.
 - The maximum level occupies all the available space between the adjoining parts.
 - The minimum level has depth and a granular or matte surface, can be any color and is not limited to black, brown, or gray.



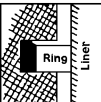
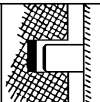
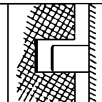
Manual 20 Carbon Levels

| | | | | | |
|--------------------------|---|---|---|--|---|
| Typical Illustration |  |  |  |  |  |
| | Clearance Fill | 100% | >66% <100% | 33% - 66% | 15% - <33% |
| Description | HC | MHC | MC | LC | VLC |
| Deposit Factor (Demerit) | 1.00 | 0.75 | 0.50 | 0.25 | 0.15 |
| Deposit Factor (Merit) | 0.00 | 0.25 | 0.50 | 0.75 | 0.85 |

HC = Heavy Carbon
MHC = Medium Heavy Carbon
MC = Medium Carbon
LC = Light Carbon
VLC = Very Light Carbon



Groove Deposit Review

| | | | |
|--------------------------|---|---|--|
| Typical Illustration |  |  |  |
| | Clearance Fill | 100% | >25% <100% |
| Description | HC | MC | LC |
| Deposit Factor (Demerit) | 1.00 | 0.50 | 0.25 |
| Deposit Factor (Merit) | 0.00 | 0.50 | 0.75 |

HC = heavy carbon
MC = medium carbon
LC = light carbon

Note that small-bore pistons only use two levels of carbon, HC & LC.

For this workshop, MC is only used on the "Square Cut" pistons.



Groove Deposit Review

- Groove carbon deposits at 100% clearance fill are mostly polished. However, even lesser depths of carbon can exhibit polished areas due to excess amount of carbon on the back of the ring and relative ring movement.
 - These deposits are deemed Heavy Carbon.



Groove Deposit Review (cont)

- Groove carbon deposits < 100% clearance fill have depth and a granular or matte surface, can be any color and are not limited to black, brown, or gray.
 - These are deemed Light Carbon.



Oil Screen Sludge

- Rate the oil screens such that if you see the screen, i.e. oil film, it is not sludge.



Oil Screen Debris

- *debris, n—in internal combustion engines, solid contaminant materials unintentionally introduced into the engine or resulting from wear.*



Rating Workshop
Data Entry Network

<http://192.168.2.8/>



Light Duty Rating Workshop 2013 – Preliminary Exercise

Left Rocker Cover Baffle Sludge
Left Rocker Cover Baffle Varnish

Right Rocker Cover Baffle Sludge
Right Rocker Cover Baffle Varnish

| | | |
|-------------------------------------|-------------------------------------|---|
| Cal Piston A Seq III Groove 1 | Cal Piston A Seq III Groove 2 | Cal Piston A Seq III Groove 3 |
| Cal Piston A Seq III Land 3 | Cal Piston A Seq III Land 2 | Cal Piston A Seq III Undercrown, Thrust. Anti-Thrust |

| | | |
|---|-------------------------------------|-------------------------------------|
| Cal Piston B Seq III Groove 3 | Cal Piston B Seq III Groove 2 | Cal Piston B Seq III Groove 1 |
| | Cal Piston B Seq III Land 2 | Cal Piston B Seq III Land 3 |
| Cal Piston B Seq III Undercrown, Thrust. Anti-Thrust | | |

| | | |
|-------------------------------------|-------------------------------------|---|
| Cal Piston D Seq III Groove 1 | Cal Piston D Seq III Groove 2 | Cal Piston D Seq III Groove 3 |
| Cal Piston D Seq III Land 3 | Cal Piston D Seq III Land 2 | Cal Piston D Seq III Undercrown, Thrust. Anti-Thrust |

| | | |
|---|-------------------------------------|-------------------------------------|
| Cal Piston C Seq III Groove 3 | Cal Piston C Seq III Groove 2 | Cal Piston C Seq III Groove 1 |
| | Cal Piston C Seq III Land 2 | Cal Piston C Seq III Land 3 |
| Cal Piston C Seq III Undercrown, Thrust. Anti-Thrust | | |

| | | |
|--|-------------------------------------|--------------------------------------|
| Cal Piston T Field Grooves 1,2,3 | Cal Piston T Field Land 2,3 | Cal Piston T Field Front, Rear |
| Cal Piston M DV4 Groove 1 | Cal Piston M DV4 Grooves 2, 3 | Cal Piston M DV4 Lands 2, 3 |

| | | |
|------------------------------------|--|--|
| VALCAL Intake Valve Deposits | Cal Piston E1-4 Seq V Piston Skirt | Cal Piston F1-4 Seq V Piston Skirt |
| | Cal Piston G1-4 Seq V Piston Skirt | Cal Piston H1-4 Seq V Piston Skirt |
| PTCAL Piston Top Deposits | | |

Light Duty Rating Workshop 2013 – Practical Application Exercise

L Rocker Cover, L RC Baffle, L RC Baffle Varnish, L Valve Deck Sludge, Timing Chain, Oil Screen

R Rocker Cover, R RC Baffle, R RC Baffle Varnish, R Valve Deck Sludge, Oil Pan, Oil Pan Baffle

| | | |
|---------------|-------------------------|---------------|
| A1 Seq III | A2 Seq III | A3 Seq III |
| A6 Seq III | A5 Square-cut Diesel | A4 Seq III |

| | | |
|---------------|-------------------------|---------------|
| B3 Seq III | B2 Seq III | B1 Seq III |
| B4 Seq III | B5 Square-cut Diesel | B6 Seq III |

| | | |
|-------------------------|-------------------------|-------------------------|
| A7 Square-cut Diesel | B7 Square-cut Diesel | C7 Square-cut Diesel |
| A8 Field Piston | B8 Field Piston | C8 Field Piston |

| | | |
|---------------|-------------------------|---------------|
| C3 Seq III | C2 Seq III | C1 Seq III |
| C4 Seq III | C5 Square-cut Diesel | C6 Seq III |

| | | |
|-----------------------|-----------------------|-----------------------|
| I1-8 Intake Valves | J1-8 Intake Valves | K1-8 Intake Valves |
| X1 DV4 Piston | Y1 DV4 Piston | Z1 DV4 Piston |

| | | |
|------------------------|-----------------------|-----------------------|
| L1 Specialty Piston | P1-8 Seq V Pistons | Q1-8 Seq V Pistons |
| PTOPS Piston Tops | R1-8 Seq V Pistons | S1-8 Seq V Pistons |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= CAL-A - CAL. SEQUENCE III PISTON

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Adams, Patrick | 1.12 | 1.24 | 8.45 | 1.57 | 6.62 | 4.00 | 9.59 | 9.90 |
| Barrera, Tony | 1.55 | 1.29 | 8.18 | 1.24 | 8.59 | 3.18 | 9.73 | 9.99 |
| Cales, Jonathon | 1.76 | 1.23 | 7.77 | 0.98 | 6.18 | 3.43 | 9.72 | 9.90 |
| Castillo, George | 2.21 | 1.66 | 8.48 | 1.35 | 6.44 | 3.16 | 9.21 | 9.95 |
| Cumberworth, Lee | 1.62 | 1.32 | 8.15 | 1.37 | 5.99 | 2.66 | 9.85 | 9.93 |
| Foecking, Brian | 1.91 | 1.51 | 7.96 | 1.22 | 6.29 | 2.75 | 9.44 | 9.95 |
| Hurst, Kevin R. | 1.62 | 1.48 | 8.08 | 1.03 | 6.15 | 3.66 | 9.64 | 9.75 |
| Kobrinetz, Joaquin J. | 1.62 | 1.36 | 8.33 | 1.35 | 6.71 | 3.59 | 9.77 | 9.93 |
| Lopez, Frank | 1.49 | 1.48 | 8.61 | 1.46 | 6.93 | 2.92 | 9.65 | 9.90 |
| Lowry, Shannon | 2.02 | 1.18 | 7.93 | 1.65 | 6.65 | 3.68 | 9.77 | 9.95 |
| Potocar, William P | 1.42 | 1.54 | 8.15 | 1.54 | 5.93 | 2.87 | 9.75 | 9.90 |
| Seiz, Ray | 1.83 | 1.27 | 8.18 | 1.48 | 7.01 | 3.48 | 9.70 | 9.85 |
| Swanson, Dennis | 1.50 | 1.88 | 7.87 | 0.71 | 6.15 | 3.00 | 9.39 | 9.82 |
| Terrado, Ken | 1.01 | 0.94 | 7.66 | 1.16 | 6.43 | 2.99 | 9.73 | 9.90 |
| Trevino, Bobby | 1.56 | 1.59 | 8.42 | 1.29 | 6.83 | 2.99 | 9.71 | 9.88 |
| Viera, Ralph B. | 1.68 | 1.31 | 8.29 | 1.38 | 6.42 | 2.85 | 9.82 | 9.99 |
| Zalewski, John | 1.48 | 1.49 | 7.59 | 1.44 | 6.77 | 3.16 | 9.83 | 9.90 |
| MAXIMUM | 2.21 | 1.88 | 8.61 | 1.65 | 8.59 | 4.00 | 9.85 | 9.99 |
| MINIMUM | 1.01 | 0.94 | 7.59 | 0.71 | 5.93 | 2.66 | 9.21 | 9.75 |
| RANGE(MAX-MIN) | 1.200 | 0.940 | 1.020 | 0.940 | 2.660 | 1.340 | 0.640 | 0.240 |
| MEAN | 1.612 | 1.398 | 8.124 | 1.307 | 6.594 | 3.198 | 9.665 | 9.905 |
| STANDARD DEVIATION | 0.294 | 0.216 | 0.295 | 0.237 | 0.608 | 0.379 | 0.171 | 0.060 |

Part ID= CAL-A - CAL. SEQUENCE III PISTON

CAL-A Y1 Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|-----------------------|--------|-------|--------|--------|-------|-------|--------|--------|
| Adams, Patrick | -1.67 | -0.73 | 1.11 | 1.11 | 0.04 | 2.11 | -0.44 | -0.09 |
| Barrera, Tony | -0.21 | -0.50 | 0.19 | -0.28 | 3.28 | -0.05 | 0.38 | 1.42 |
| Cales, Jonathon | 0.50 | -0.78 | -1.20 | -1.38 | -0.68 | 0.61 | 0.32 | -0.09 |
| Castillo, George | 2.04 | 1.21 | 1.21 | 0.18 | -0.25 | -0.10 | -2.66 | 0.75 |
| Cumberworth, Lee | 0.03 | -0.36 | 0.09 | 0.27 | -0.99 | -1.42 | 1.08 | 0.41 |
| Foecking, Brian | 1.02 | 0.52 | -0.55 | -0.37 | -0.50 | -1.18 | -1.31 | 0.75 |
| Hurst, Kevin R. | 0.03 | 0.38 | -0.15 | -1.17 | -0.73 | 1.22 | -0.14 | -2.61 |
| Kobrinetz, Joaquin J. | 0.03 | -0.18 | 0.70 | 0.18 | 0.19 | 1.03 | 0.61 | 0.41 |
| Lopez, Frank | -0.41 | 0.38 | 1.65 | 0.65 | 0.55 | -0.73 | -0.09 | -0.09 |
| Lowry, Shannon | 1.39 | -1.01 | -0.66 | 1.45 | 0.09 | 1.27 | 0.61 | 0.75 |
| Potocar, William P | -0.65 | 0.66 | 0.09 | 0.98 | -1.09 | -0.87 | 0.50 | -0.09 |
| Seiz, Ray | 0.74 | -0.59 | 0.19 | 0.73 | 0.68 | 0.74 | 0.21 | -0.93 |
| Swanson, Dennis | -0.38 | 2.23 | -0.86 | -2.52 | -0.73 | -0.52 | -1.60 | -1.43 |
| Terrado, Ken | -2.05 | -2.12 | -1.57 | -0.62 | -0.27 | -0.55 | 0.38 | -0.09 |
| Trevino, Bobby | -0.18 | 0.89 | 1.01 | -0.07 | 0.39 | -0.55 | 0.26 | -0.42 |
| Viera, Ralph B. | 0.23 | -0.41 | 0.56 | 0.31 | -0.29 | -0.92 | 0.91 | 1.42 |
| Zalewski, John | -0.45 | 0.42 | -1.81 | 0.56 | 0.29 | -0.10 | 0.97 | -0.09 |
| MAXIMUM | -2.05 | 2.23 | -1.81 | -2.52 | 3.28 | 2.11 | -2.66 | -2.61 |
| MINIMUM | 0.03 | -0.18 | 0.09 | -0.07 | 0.04 | -0.05 | -0.09 | -0.09 |
| RANGE(MAX-MIN) | -2.077 | 2.408 | -1.899 | -2.447 | 3.239 | 2.162 | -2.569 | -2.517 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= CAL-B - CAL. SEQUENCE III PISTON

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Adams, Patrick | 1.73 | 0.63 | 8.97 | 0.60 | 1.25 | 5.58 | 9.17 | 9.90 |
| Aguirre, Nancy P | 2.29 | 0.58 | 7.82 | 0.63 | 1.17 | 4.45 | 9.07 | 9.91 |
| Cales, Jonathon | 2.01 | 0.58 | 8.54 | 0.73 | 1.09 | 4.27 | 8.87 | 9.95 |
| Caproni, David | 1.91 | 0.60 | 8.90 | 0.71 | 1.20 | 5.18 | 8.95 | 9.95 |
| Castillo, George | 1.95 | 0.60 | 8.97 | 0.64 | 1.23 | 4.89 | 9.23 | 10.00 |
| Cumberworth, Lee | 1.77 | 0.68 | 9.00 | 0.75 | 1.08 | 3.92 | 9.66 | 10.00 |
| Foecking, Brian | 2.20 | 0.62 | 9.29 | 0.55 | 1.04 | 3.93 | 9.21 | 9.90 |
| Greenland, Paul | 3.24 | 0.55 | 8.93 | 0.59 | 1.14 | 4.35 | 9.11 | 9.90 |
| Kobrinetz, Joaquin J. | 2.47 | 0.62 | 9.06 | 0.59 | 1.15 | 4.78 | 9.33 | 9.97 |
| Kraemer, Vernon | 3.45 | 0.73 | 8.46 | 0.74 | 1.95 | 5.20 | 8.82 | 9.61 |
| Lonsway, Chris | 2.17 | 0.65 | 9.40 | 0.62 | 0.90 | 4.23 | 9.40 | 9.95 |
| Lowry, Shannon | 1.58 | 0.64 | 8.72 | 0.75 | 1.25 | 5.09 | 9.38 | 10.00 |
| Lowsky, John | 3.15 | 0.52 | 8.94 | 0.60 | 1.19 | 4.75 | 8.99 | 10.00 |
| Potocar, William P | 2.03 | 0.54 | 8.89 | 0.57 | 0.93 | 4.85 | 8.87 | 9.90 |
| Rodriguez, Jesus (Jesse) | 1.78 | 0.59 | 8.90 | 0.64 | 0.90 | 4.49 | 8.97 | 9.80 |
| Seiz, Ray | 2.08 | 0.60 | 9.12 | 0.90 | 1.30 | 4.16 | 9.35 | 9.85 |
| Terrado, Ken | 1.78 | 0.63 | 9.39 | 0.69 | 1.12 | 4.57 | 9.33 | 10.00 |
| Trevino, Bobby | 2.46 | 0.65 | 9.00 | 0.67 | 1.02 | 4.74 | 9.44 | 9.93 |
| Veiga, Victor | 2.07 | 0.65 | 9.30 | 0.84 | 1.03 | 5.00 | 9.42 | 9.80 |
| MAXIMUM | 3.45 | 0.73 | 9.40 | 0.90 | 1.95 | 5.58 | 9.66 | 10.00 |
| MINIMUM | 1.58 | 0.52 | 7.82 | 0.55 | 0.90 | 3.92 | 8.82 | 9.61 |
| RANGE(MAX-MIN) | 1.870 | 0.210 | 1.580 | 0.350 | 1.050 | 1.660 | 0.840 | 0.390 |
| MEAN | 2.217 | 0.614 | 8.926 | 0.674 | 1.155 | 4.654 | 9.188 | 9.912 |
| STANDARD DEVIATION | 0.531 | 0.050 | 0.366 | 0.094 | 0.226 | 0.452 | 0.235 | 0.096 |

Part ID= CAL-B - CAL. SEQUENCE III PISTON

CAL-B YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|--------------------------|-------|-------|--------|-------|-------|-------|-------|--------|
| Adams, Patrick | -0.92 | 0.33 | 0.12 | -0.79 | 0.42 | 2.05 | -0.08 | -0.12 |
| Aguirre, Nancy P | 0.14 | -0.67 | -3.02 | -0.47 | 0.07 | -0.45 | -0.50 | -0.02 |
| Cales, Jonathon | -0.39 | -0.67 | -1.05 | 0.60 | -0.29 | -0.85 | -1.35 | 0.40 |
| Caproni, David | -0.58 | -0.27 | -0.07 | 0.38 | 0.20 | 1.16 | -1.01 | 0.40 |
| Castillo, George | -0.50 | -0.27 | 0.12 | -0.37 | 0.33 | 0.52 | 0.18 | 0.92 |
| Cumberworth, Lee | -0.84 | 1.33 | 0.20 | 0.81 | -0.33 | -1.63 | 2.01 | 0.92 |
| Foecking, Brian | -0.03 | 0.13 | 0.99 | -1.33 | -0.51 | -1.60 | 0.09 | -0.12 |
| Greenland, Paul | 1.93 | -1.28 | 0.01 | -0.90 | -0.07 | -0.67 | -0.33 | -0.12 |
| Kobrinetz, Joaquin J. | 0.48 | 0.13 | 0.36 | -0.90 | -0.02 | 0.28 | 0.61 | 0.61 |
| Kraemer, Vernon | 2.32 | 2.33 | -1.27 | 0.70 | 3.52 | 1.21 | -1.57 | -3.13 |
| Lonsway, Chris | -0.09 | 0.73 | 1.29 | -0.58 | -1.13 | -0.94 | 0.90 | 0.40 |
| Lowry, Shannon | -1.20 | 0.53 | -0.56 | 0.81 | 0.42 | 0.97 | 0.82 | 0.92 |
| Lowsky, John | 1.76 | -1.88 | 0.04 | -0.79 | 0.16 | 0.21 | -0.84 | 0.92 |
| Potocar, William P | -0.35 | -1.48 | -0.10 | -1.11 | -0.99 | 0.43 | -1.35 | -0.12 |
| Rodriguez, Jesus (Jesse) | -0.82 | -0.47 | -0.07 | -0.37 | -1.13 | -0.36 | -0.93 | -1.16 |
| Seiz, Ray | -0.26 | -0.27 | 0.53 | 2.41 | 0.64 | -1.09 | 0.69 | -0.64 |
| Terrado, Ken | -0.82 | 0.33 | 1.27 | 0.17 | -0.15 | -0.19 | 0.61 | 0.92 |
| Trevino, Bobby | 0.46 | 0.73 | 0.20 | -0.05 | -0.60 | 0.19 | 1.07 | 0.19 |
| Veiga, Victor | -0.28 | 0.73 | 1.02 | 1.77 | -0.55 | 0.77 | 0.99 | -1.16 |
| MAXIMUM | 2.32 | 2.33 | -3.02 | 2.41 | 3.52 | 2.05 | 2.01 | -3.13 |
| MINIMUM | -0.03 | 0.13 | 0.01 | -0.05 | -0.02 | -0.19 | -0.08 | -0.02 |
| RANGE(MAX-MIN) | 2.354 | 2.204 | -3.029 | 2.458 | 3.540 | 2.237 | 2.087 | -3.110 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= CAL-C - CAL. SEQUENCE III PISTON

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Aguirre, Nancy P | 1.19 | 1.58 | 8.76 | 0.79 | 8.00 | 5.59 | 9.45 | 9.88 |
| Avis, Steven | 0.75 | 1.74 | 8.89 | 1.12 | 9.01 | 4.87 | 9.58 | 9.99 |
| Campbell, Bryan | 1.96 | 1.13 | 7.92 | 0.61 | 8.28 | 6.08 | 9.55 | 9.85 |
| Caproni, David | 1.54 | 1.34 | 8.27 | 0.92 | 8.28 | 5.05 | 9.59 | 9.95 |
| Castillo, George | 1.34 | 1.49 | 8.73 | 0.82 | 8.56 | 5.96 | 9.44 | 9.82 |
| Cumberworth, Lee | 0.91 | 1.27 | 8.63 | 0.84 | 8.69 | 4.77 | 9.72 | 9.95 |
| Greenland, Paul | 1.24 | 1.51 | 9.06 | 0.78 | 8.74 | 4.65 | 9.63 | 9.90 |
| Hills, Barry | 1.64 | 1.41 | 9.43 | 0.68 | 9.19 | 4.69 | 9.76 | 9.90 |
| Kobrinetz, Joaquin J. | 1.28 | 1.61 | 8.65 | 0.80 | 8.64 | 4.75 | 9.80 | 9.93 |
| Kraemer, Vernon | 3.58 | 2.10 | 8.41 | 1.90 | 8.30 | 7.03 | 9.14 | 9.48 |
| Lonsway, Chris | 0.86 | 1.66 | 9.18 | 0.82 | 9.12 | 4.53 | 9.46 | 9.95 |
| Lowsky, John | 2.00 | 1.79 | 8.64 | 0.81 | 8.82 | 5.65 | 9.23 | 9.80 |
| May, Marianne | 0.80 | 1.15 | 8.92 | 0.77 | 9.03 | 5.38 | 9.59 | 9.96 |
| Rodriguez, Jesus (Jesse) | 0.75 | 1.51 | 8.52 | 0.73 | 8.90 | 4.55 | 9.60 | 9.88 |
| Sanchez, Arthur | 1.00 | 1.37 | 9.08 | 0.80 | 9.10 | 4.46 | 9.71 | 9.86 |
| Terrado, Ken | 1.38 | 0.78 | 8.75 | 0.78 | 8.76 | 4.95 | 9.39 | 9.88 |
| Veiga, Victor | 1.13 | 2.34 | 9.08 | 0.84 | 9.37 | 5.90 | 9.62 | 9.79 |
| MAXIMUM | 3.58 | 2.34 | 9.43 | 1.90 | 9.37 | 7.03 | 9.80 | 9.99 |
| MINIMUM | 0.75 | 0.78 | 7.92 | 0.61 | 8.00 | 4.46 | 9.14 | 9.48 |
| RANGE(MAX-MIN) | 2.830 | 1.560 | 1.510 | 1.290 | 1.370 | 2.570 | 0.660 | 0.510 |
| MEAN | 1.374 | 1.516 | 8.760 | 0.871 | 8.752 | 5.227 | 9.545 | 9.869 |
| STANDARD DEVIATION | 0.687 | 0.365 | 0.365 | 0.285 | 0.377 | 0.713 | 0.178 | 0.116 |

Part ID= CAL-C - CAL. SEQUENCE III PISTON

CAL-C YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|--------------------------|-------|-------|--------|-------|--------|-------|--------|--------|
| Aguirre, Nancy P | -0.27 | 0.17 | 0.00 | -0.28 | -2.00 | 0.51 | -0.53 | 0.10 |
| Avis, Steven | -0.91 | 0.61 | 0.36 | 0.87 | 0.68 | -0.50 | 0.20 | 1.05 |
| Campbell, Bryan | 0.85 | -1.06 | -2.30 | -0.92 | -1.25 | 1.20 | 0.03 | -0.16 |
| Caproni, David | 0.24 | -0.48 | -1.34 | 0.17 | -1.25 | -0.25 | 0.26 | 0.70 |
| Castillo, George | -0.05 | -0.07 | -0.08 | -0.18 | -0.51 | 1.03 | -0.59 | -0.42 |
| Cumberworth, Lee | -0.67 | -0.68 | -0.36 | -0.11 | -0.17 | -0.64 | 0.99 | 0.70 |
| Greenland, Paul | -0.19 | -0.02 | 0.82 | -0.32 | -0.03 | -0.81 | 0.48 | 0.27 |
| Hills, Barry | 0.39 | -0.29 | 1.84 | -0.67 | 1.16 | -0.75 | 1.21 | 0.27 |
| Kobrinetz, Joaquin J. | -0.14 | 0.26 | -0.30 | -0.25 | -0.30 | -0.67 | 1.44 | 0.53 |
| Kraemer, Vernon | 3.21 | 1.60 | -0.96 | 3.61 | -1.20 | 2.53 | -2.28 | -3.36 |
| Lonsway, Chris | -0.75 | 0.39 | 1.15 | -0.18 | 0.98 | -0.98 | -0.48 | 0.70 |
| Lowsky, John | 0.91 | 0.75 | -0.33 | -0.21 | 0.18 | 0.59 | -1.77 | -0.60 |
| May, Marianne | -0.84 | -1.00 | 0.44 | -0.35 | 0.74 | 0.21 | 0.26 | 0.79 |
| Rodriguez, Jesus (Jesse) | -0.91 | -0.02 | -0.66 | -0.49 | 0.39 | -0.95 | 0.31 | 0.10 |
| Sanchez, Arthur | -0.54 | -0.40 | 0.88 | -0.25 | 0.92 | -1.08 | 0.93 | -0.08 |
| Terrado, Ken | 0.01 | -2.02 | -0.03 | -0.32 | 0.02 | -0.39 | -0.87 | 0.10 |
| Veiga, Victor | -0.35 | 2.26 | 0.88 | -0.11 | 1.64 | 0.94 | 0.42 | -0.68 |
| MAXIMUM | 3.21 | 2.26 | -2.30 | 3.61 | -2.00 | 2.53 | -2.28 | -3.36 |
| MINIMUM | 0.01 | -0.02 | 0.00 | -0.11 | 0.02 | 0.21 | 0.03 | -0.08 |
| RANGE(MAX-MIN) | 3.203 | 2.276 | -2.301 | 3.716 | -2.018 | 2.315 | -2.308 | -3.288 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= CAL-D - CAL. SEQUENCE III PISTON

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Avis, Steven | 0.75 | 1.15 | 9.02 | 1.03 | 1.99 | 1.98 | 9.13 | 9.88 |
| Barrera, Tony | 0.80 | 0.82 | 8.41 | 1.08 | 1.74 | 3.08 | 8.96 | 9.68 |
| Castillo, George | 0.75 | 0.91 | 8.82 | 1.10 | 1.74 | 3.17 | 9.30 | 9.64 |
| Cumberworth, Lee | 0.84 | 0.88 | 8.95 | 1.11 | 1.89 | 2.56 | 9.58 | 9.94 |
| Hills, Barry | 0.83 | 0.91 | 9.20 | 0.99 | 1.99 | 1.80 | 9.43 | 9.78 |
| Hurst, Kevin R. | 0.84 | 0.92 | 8.59 | 1.25 | 2.10 | 2.58 | 9.41 | 9.75 |
| Kobrinetz, Joaquin J. | 0.88 | 1.00 | 8.76 | 1.18 | 2.32 | 3.04 | 9.31 | 9.83 |
| Lonsway, Chris | 0.83 | 0.84 | 8.84 | 0.87 | 2.08 | 2.03 | 9.13 | 9.75 |
| Lopez, Frank | 0.84 | 0.76 | 9.14 | 1.14 | 2.19 | 2.48 | 9.01 | 9.79 |
| May, Marianne | 0.82 | 0.91 | 9.12 | 0.92 | 2.24 | 2.80 | 9.21 | 9.72 |
| Sanchez, Arthur | 0.81 | 1.01 | 9.35 | 0.95 | 1.67 | 2.72 | 9.37 | 9.74 |
| Swanson, Dennis | 1.13 | 1.20 | 8.48 | 1.08 | 2.16 | 2.70 | 8.47 | 9.47 |
| Viera, Ralph B. | 0.83 | 0.96 | 8.65 | 1.02 | 2.46 | 2.39 | 8.91 | 9.87 |
| Zalewski, John | 0.84 | 0.85 | 9.23 | 1.41 | 2.34 | 2.36 | 9.17 | 9.70 |
| MAXIMUM | 1.13 | 1.20 | 9.35 | 1.41 | 2.46 | 3.17 | 9.58 | 9.94 |
| MINIMUM | 0.75 | 0.76 | 8.41 | 0.87 | 1.67 | 1.80 | 8.47 | 9.47 |
| RANGE(MAX-MIN) | 0.380 | 0.440 | 0.940 | 0.540 | 0.790 | 1.370 | 1.110 | 0.470 |
| MEAN | 0.842 | 0.937 | 8.897 | 1.081 | 2.065 | 2.549 | 9.171 | 9.753 |
| STANDARD DEVIATION | 0.090 | 0.122 | 0.295 | 0.140 | 0.242 | 0.416 | 0.278 | 0.116 |

Part ID= CAL-D - CAL. SEQUENCE III PISTON

CAL-D YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|-----------------------|-------|-------|--------|-------|--------|--------|--------|--------|
| Avis, Steven | -1.03 | 1.75 | 0.42 | -0.36 | -0.31 | -1.37 | -0.15 | 1.10 |
| Barrera, Tony | -0.47 | -0.96 | -1.65 | -0.01 | -1.34 | 1.28 | -0.76 | -0.63 |
| Castillo, George | -1.03 | -0.22 | -0.26 | 0.14 | -1.34 | 1.49 | 0.47 | -0.97 |
| Cumberworth, Lee | -0.02 | -0.47 | 0.18 | 0.21 | -0.72 | 0.03 | 1.47 | 1.61 |
| Hills, Barry | -0.14 | -0.22 | 1.03 | -0.65 | -0.31 | -1.80 | 0.93 | 0.23 |
| Hurst, Kevin R. | -0.02 | -0.14 | -1.04 | 1.21 | 0.14 | 0.07 | 0.86 | -0.02 |
| Kobrinetz, Joaquin J. | 0.42 | 0.52 | -0.47 | 0.71 | 1.05 | 1.18 | 0.50 | 0.66 |
| Lonsway, Chris | -0.14 | -0.80 | -0.19 | -1.51 | 0.06 | -1.25 | -0.15 | -0.02 |
| Lopez, Frank | -0.02 | -1.46 | 0.82 | 0.42 | 0.52 | -0.17 | -0.58 | 0.32 |
| May, Marianne | -0.25 | -0.22 | 0.76 | -1.15 | 0.72 | 0.60 | 0.14 | -0.28 |
| Sanchez, Arthur | -0.36 | 0.60 | 1.54 | -0.94 | -1.63 | 0.41 | 0.72 | -0.11 |
| Swanson, Dennis | 3.20 | 2.16 | -1.42 | -0.01 | 0.39 | 0.36 | -2.52 | -2.44 |
| Viera, Ralph B. | -0.14 | 0.19 | -0.84 | -0.43 | 1.63 | -0.38 | -0.94 | 1.01 |
| Zalewski, John | -0.02 | -0.72 | 1.13 | 2.36 | 1.14 | -0.46 | 0.00 | -0.46 |
| MAXIMUM | 3.20 | 2.16 | -1.65 | 2.36 | -1.63 | -1.80 | -2.52 | -2.44 |
| MINIMUM | -0.02 | -0.14 | 0.18 | -0.01 | 0.06 | 0.03 | 0.00 | -0.02 |
| RANGE(MAX-MIN) | 3.226 | 2.303 | -1.833 | 2.363 | -1.693 | -1.829 | -2.522 | -2.413 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= CAL-M - CAL DV4 PISTON

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT |
|--------------------------|-------|-------|-------|-------|-------|
| Adams, Patrick | 0.91 | 0.40 | 9.20 | 0.55 | 8.67 |
| Aguirre, Nancy P | 0.97 | 0.55 | 9.47 | 0.79 | 9.20 |
| Avis, Steven | 0.68 | 0.47 | 8.78 | 0.14 | 9.38 |
| Barrera, Tony | 0.69 | 0.52 | 9.66 | 0.63 | 9.63 |
| Cales, Jonathon | 0.74 | 0.64 | 9.89 | 0.23 | 9.90 |
| Campbell, Bryan | 0.76 | 1.50 | 9.28 | 0.32 | 9.95 |
| Caproni, David | 0.68 | 0.52 | 9.90 | 0.28 | 9.80 |
| Castillo, George | 0.98 | 0.52 | 8.45 | 0.74 | 8.31 |
| Cumberworth, Lee | 0.88 | 0.63 | 9.20 | 0.68 | 9.20 |
| Foecking, Brian | 0.68 | 0.52 | 9.57 | 0.20 | 9.16 |
| Greenland, Paul | 1.11 | 0.41 | 9.85 | 0.21 | 9.49 |
| Hurst, Kevin R. | 0.71 | 0.45 | 8.95 | 0.51 | 8.90 |
| Kobrinetz, Joaquin J. | 1.00 | 0.43 | 9.65 | 0.16 | 9.65 |
| Kraemer, Vernon | 1.07 | 0.85 | 0.46 | 0.30 | 9.51 |
| Lonsway, Chris | 0.76 | 0.57 | 9.70 | 0.21 | 9.70 |
| Lopez, Frank | 0.70 | 0.44 | 9.30 | 0.22 | 9.07 |
| Lowsky, John | 1.00 | 0.42 | 8.82 | 0.37 | 9.08 |
| May, Marianne | 0.75 | 0.51 | 9.88 | 0.20 | 9.65 |
| Potocar, William P | 0.66 | 0.60 | 9.35 | 0.17 | 9.30 |
| Rodriguez, Jesus (Jesse) | 0.70 | 0.45 | 9.14 | 0.72 | 8.80 |
| Sanchez, Arthur | 0.93 | 0.49 | 9.85 | 0.18 | 9.86 |
| Seiz, Ray | 0.83 | 0.56 | 9.80 | 0.25 | 9.65 |
| Swanson, Dennis | 0.91 | 0.40 | 9.40 | 0.67 | 9.00 |
| Veiga, Victor | 0.63 | 0.50 | 8.44 | 0.32 | 8.21 |
| Viera, Ralph B. | 0.72 | 0.59 | 8.36 | 0.31 | 9.12 |
| Zalewski, John | 0.76 | 0.36 | 9.69 | 0.40 | 9.52 |
| MAXIMUM | 1.11 | 1.50 | 9.90 | 0.79 | 9.95 |
| MINIMUM | 0.63 | 0.36 | 0.46 | 0.14 | 8.21 |
| RANGE(MAX-MIN) | 0.480 | 1.140 | 9.440 | 0.650 | 1.740 |
| MEAN | 0.816 | 0.550 | 9.002 | 0.375 | 9.297 |
| STANDARD DEVIATION | 0.142 | 0.218 | 1.805 | 0.210 | 0.463 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= CAL-M - CAL DV4 PISTON

CAL-M Yi Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT |
|--------------------------|-------|-------|--------|-------|--------|
| Adams, Patrick | 0.67 | -0.69 | 0.11 | 0.83 | -1.35 |
| Aguirre, Nancy P | 1.09 | 0.00 | 0.26 | 1.97 | -0.21 |
| Avis, Steven | -0.96 | -0.37 | -0.12 | -1.12 | 0.18 |
| Barrera, Tony | -0.89 | -0.14 | 0.36 | 1.21 | 0.72 |
| Cales, Jonathon | -0.54 | 0.41 | 0.49 | -0.69 | 1.30 |
| Campbell, Bryan | -0.39 | 4.35 | 0.15 | -0.26 | 1.41 |
| Caproni, David | -0.96 | -0.14 | 0.50 | -0.45 | 1.09 |
| Castillo, George | 1.16 | -0.14 | -0.31 | 1.74 | -2.13 |
| Cumberworth, Lee | 0.45 | 0.37 | 0.11 | 1.45 | -0.21 |
| Foecking, Brian | -0.96 | -0.14 | 0.32 | -0.84 | -0.30 |
| Greenland, Paul | 2.08 | -0.64 | 0.47 | -0.79 | 0.42 |
| Hurst, Kevin R. | -0.75 | -0.46 | -0.03 | 0.64 | -0.86 |
| Kobrinetz, Joaquin J. | 1.30 | -0.55 | 0.36 | -1.03 | 0.76 |
| Kraemer, Vernon | 1.80 | 1.37 | -4.73 | -0.36 | 0.46 |
| Lonsway, Chris | -0.39 | 0.09 | 0.39 | -0.79 | 0.87 |
| Lopez, Frank | -0.82 | -0.50 | 0.17 | -0.74 | -0.49 |
| Lowsky, John | 1.30 | -0.60 | -0.10 | -0.03 | -0.47 |
| May, Marianne | -0.46 | -0.18 | 0.49 | -0.84 | 0.76 |
| Potocar, William P | -1.10 | 0.23 | 0.19 | -0.98 | 0.01 |
| Rodriguez, Jesus (Jesse) | -0.82 | -0.46 | 0.08 | 1.64 | -1.07 |
| Sanchez, Arthur | 0.81 | -0.27 | 0.47 | -0.93 | 1.22 |
| Seiz, Ray | 0.10 | 0.05 | 0.44 | -0.60 | 0.76 |
| Swanson, Dennis | 0.67 | -0.69 | 0.22 | 1.40 | -0.64 |
| Veiga, Victor | -1.31 | -0.23 | -0.31 | -0.26 | -2.35 |
| Viera, Ralph B. | -0.68 | 0.18 | -0.36 | -0.31 | -0.38 |
| Zalewski, John | -0.39 | -0.87 | 0.38 | 0.12 | 0.48 |
| MAXIMUM | 2.08 | 4.35 | -4.73 | 1.97 | -2.35 |
| MINIMUM | 0.10 | 0.00 | -0.03 | -0.03 | 0.01 |
| RANGE(MAX-MIN) | 1.977 | 4.348 | -4.704 | 2.001 | -2.355 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= CAL-T - CAL FIELD PISTON

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | FRTOT | RRTOT |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|
| Adams, Patrick | 0.52 | 0.73 | 1.33 | 2.69 | 1.79 | 6.20 | 5.60 |
| Avis, Steven | 0.60 | 0.75 | 1.40 | 1.47 | 2.69 | 5.75 | 5.80 |
| Barrera, Tony | 0.81 | 0.89 | 1.68 | 2.35 | 1.49 | 5.95 | 5.99 |
| Cales, Jonathon | 0.75 | 0.83 | 1.33 | 3.28 | 1.28 | 5.14 | 5.51 |
| Campbell, Bryan | 0.85 | 0.88 | 1.69 | 3.66 | 2.03 | 5.70 | 6.28 |
| Caproni, David | 0.60 | 0.89 | 1.44 | 3.41 | 1.29 | 5.70 | 6.45 |
| Castillo, George | 0.66 | 0.75 | 3.17 | 1.55 | 2.97 | 6.01 | 5.45 |
| Foecking, Brian | 0.80 | 0.91 | 1.28 | 2.12 | 1.19 | 5.52 | 5.62 |
| Greenland, Paul | 0.38 | 0.75 | 1.41 | 2.79 | 1.70 | 5.35 | 5.93 |
| Hills, Barry | 0.72 | 0.82 | 1.25 | 2.92 | 1.55 | 5.38 | 5.45 |
| Hurst, Kevin R. | 0.68 | 0.83 | 1.58 | 2.68 | 1.68 | 4.78 | 4.98 |
| Kobrinetz, Joaquin J. | 0.58 | 0.86 | 1.52 | 2.48 | 1.52 | 5.22 | 5.20 |
| Kraemer, Vernon | 0.75 | 0.85 | 1.81 | 0.15 | 9.57 | 6.24 | 6.73 |
| Lopez, Frank | 0.84 | 0.93 | 1.90 | 2.45 | 1.74 | 6.25 | 6.42 |
| Lowsky, John | 0.47 | 0.94 | 1.39 | 3.38 | 1.66 | 5.85 | 5.75 |
| Potocar, William P | 0.68 | 0.82 | 1.22 | 2.33 | 1.21 | 5.06 | 5.55 |
| Rodriguez, Jesus (Jesse) | 0.71 | 0.75 | 2.60 | 1.45 | 2.25 | 5.42 | 5.73 |
| Sanchez, Arthur | 0.45 | 0.75 | 1.54 | 0.81 | 4.74 | 6.97 | 6.40 |
| Seiz, Ray | 0.95 | 0.83 | 1.72 | 3.03 | 1.68 | 5.67 | 5.32 |
| Swanson, Dennis | 0.92 | 1.03 | 1.75 | 3.11 | 1.94 | 5.36 | 5.46 |
| Veiga, Victor | 0.69 | 0.75 | 1.53 | 2.72 | 1.44 | 6.89 | 6.55 |
| Viera, Ralph B. | 0.62 | 0.82 | 1.65 | 2.24 | 1.06 | 4.86 | 5.59 |
| Zalewski, John | 0.56 | 0.89 | 1.46 | 2.55 | 2.01 | 5.46 | 6.15 |
| MAXIMUM | 0.95 | 1.03 | 3.17 | 3.66 | 9.57 | 6.97 | 6.73 |
| MINIMUM | 0.38 | 0.73 | 1.22 | 0.15 | 1.06 | 4.78 | 4.98 |
| RANGE(MAX-MIN) | 0.570 | 0.300 | 1.950 | 3.510 | 8.510 | 2.190 | 1.750 |
| MEAN | 0.678 | 0.837 | 1.637 | 2.418 | 2.195 | 5.684 | 5.822 |
| STANDARD DEVIATION | 0.148 | 0.077 | 0.443 | 0.857 | 1.786 | 0.567 | 0.471 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= CAL-T - CAL FIELD PISTON

CAL-T Yi Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | FRTOT | RRTOT |
|--------------------------|--------|-------|-------|--------|-------|-------|-------|
| Adams, Patrick | -1.07 | -1.39 | -0.69 | 0.32 | -0.23 | 0.91 | -0.47 |
| Avis, Steven | -0.53 | -1.13 | -0.53 | -1.11 | 0.28 | 0.12 | -0.05 |
| Barrera, Tony | 0.89 | 0.69 | 0.10 | -0.08 | -0.39 | 0.47 | 0.36 |
| Cales, Jonathon | 0.49 | -0.09 | -0.69 | 1.01 | -0.51 | -0.96 | -0.66 |
| Campbell, Bryan | 1.16 | 0.56 | 0.12 | 1.45 | -0.09 | 0.03 | 0.97 |
| Caproni, David | -0.53 | 0.69 | -0.44 | 1.16 | -0.51 | 0.03 | 1.33 |
| Castillo, George | -0.12 | -1.13 | 3.46 | -1.01 | 0.43 | 0.58 | -0.79 |
| Foecking, Brian | 0.83 | 0.95 | -0.81 | -0.35 | -0.56 | -0.29 | -0.43 |
| Greenland, Paul | -2.01 | -1.13 | -0.51 | 0.43 | -0.28 | -0.59 | 0.23 |
| Hills, Barry | 0.28 | -0.22 | -0.87 | 0.59 | -0.36 | -0.54 | -0.79 |
| Hurst, Kevin R. | 0.01 | -0.09 | -0.13 | 0.31 | -0.29 | -1.59 | -1.79 |
| Kobrinetz, Joaquin J. | -0.66 | 0.30 | -0.26 | 0.07 | -0.38 | -0.82 | -1.32 |
| Kraemer, Vernon | 0.49 | 0.17 | 0.39 | -2.65 | 4.13 | 0.98 | 1.93 |
| Lopez, Frank | 1.10 | 1.21 | 0.59 | 0.04 | -0.25 | 1.00 | 1.27 |
| Lowsky, John | -1.40 | 1.34 | -0.56 | 1.12 | -0.30 | 0.29 | -0.15 |
| Potocar, William P | 0.01 | -0.22 | -0.94 | -0.10 | -0.55 | -1.10 | -0.58 |
| Rodriguez, Jesus (Jesse) | 0.22 | -1.13 | 2.17 | -1.13 | 0.03 | -0.47 | -0.20 |
| Sanchez, Arthur | -1.54 | -1.13 | -0.22 | -1.88 | 1.43 | 2.27 | 1.23 |
| Seiz, Ray | 1.84 | -0.09 | 0.19 | 0.71 | -0.29 | -0.02 | -1.07 |
| Swanson, Dennis | 1.64 | 2.50 | 0.26 | 0.81 | -0.14 | -0.57 | -0.77 |
| Veiga, Victor | 0.08 | -1.13 | -0.24 | 0.35 | -0.42 | 2.13 | 1.54 |
| Viera, Ralph B. | -0.39 | -0.22 | 0.03 | -0.21 | -0.64 | -1.45 | -0.49 |
| Zalewski, John | -0.80 | 0.69 | -0.40 | 0.15 | -0.10 | -0.40 | 0.70 |
| MAXIMUM | -2.01 | 2.50 | 3.46 | -2.65 | 4.13 | 2.27 | 1.93 |
| MINIMUM | 0.01 | -0.09 | 0.03 | 0.04 | 0.03 | -0.02 | -0.05 |
| RANGE(MAX-MIN) | -2.026 | 2.595 | 3.431 | -2.685 | 4.100 | 2.294 | 1.974 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Screened Data

Part ID= CAL-T - CAL FIELD PISTON

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | FRTOT | RRTOT |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|
| Adams, Patrick | 0.52 | 0.73 | 1.33 | 2.69 | 1.79 | 6.20 | 5.60 |
| Avis, Steven | 0.60 | 0.75 | 1.40 | 1.47 | 2.69 | 5.75 | 5.80 |
| Barrera, Tony | 0.81 | 0.89 | 1.68 | 2.35 | 1.49 | 5.95 | 5.99 |
| Cales, Jonathon | 0.75 | 0.83 | 1.33 | 3.28 | 1.28 | 5.14 | 5.51 |
| Campbell, Bryan | 0.85 | 0.88 | 1.69 | 3.66 | 2.03 | 5.70 | 6.28 |
| Caproni, David | 0.60 | 0.89 | 1.44 | 3.41 | 1.29 | 5.70 | 6.45 |
| Castillo, George | 0.66 | 0.75 | 3.17 | 1.55 | 2.97 | 6.01 | 5.45 |
| Foecking, Brian | 0.80 | 0.91 | 1.28 | 2.12 | 1.19 | 5.52 | 5.62 |
| Greenland, Paul | 0.38 | 0.75 | 1.41 | 2.79 | 1.70 | 5.35 | 5.93 |
| Hills, Barry | 0.72 | 0.82 | 1.25 | 2.92 | 1.55 | 5.38 | 5.45 |
| Hurst, Kevin R. | 0.68 | 0.83 | 1.58 | 2.68 | 1.68 | 4.78 | 4.98 |
| Kobrinetz, Joaquin J. | 0.58 | 0.86 | 1.52 | 2.48 | 1.52 | 5.22 | 5.20 |
| Lopez, Frank | 0.84 | 0.93 | 1.90 | 2.45 | 1.74 | 6.25 | 6.42 |
| Lowsky, John | 0.47 | 0.94 | 1.39 | 3.38 | 1.66 | 5.85 | 5.75 |
| Potocar, William P | 0.68 | 0.82 | 1.22 | 2.33 | 1.21 | 5.06 | 5.55 |
| Rodriguez, Jesus (Jesse) | 0.71 | 0.75 | 2.60 | 1.45 | 2.25 | 5.42 | 5.73 |
| Sanchez, Arthur | 0.45 | 0.75 | 1.54 | 0.81 | 4.74 | 6.97 | 6.40 |
| Seiz, Ray | 0.95 | 0.83 | 1.72 | 3.03 | 1.68 | 5.67 | 5.32 |
| Swanson, Dennis | 0.92 | 1.03 | 1.75 | 3.11 | 1.94 | 5.36 | 5.46 |
| Veiga, Victor | 0.69 | 0.75 | 1.53 | 2.72 | 1.44 | 6.89 | 6.55 |
| Viera, Ralph B. | 0.62 | 0.82 | 1.65 | 2.24 | 1.06 | 4.86 | 5.59 |
| Zalewski, John | 0.56 | 0.89 | 1.46 | 2.55 | 2.01 | 5.46 | 6.15 |
| MAXIMUM | 0.95 | 1.03 | 3.17 | 3.66 | 4.74 | 6.97 | 6.55 |
| MINIMUM | 0.38 | 0.73 | 1.22 | 0.81 | 1.06 | 4.78 | 4.98 |
| RANGE(MAX-MIN) | 0.570 | 0.300 | 1.950 | 2.850 | 3.680 | 2.190 | 1.570 |
| MEAN | 0.675 | 0.836 | 1.629 | 2.521 | 1.860 | 5.659 | 5.781 |
| STANDARD DEVIATION | 0.151 | 0.079 | 0.452 | 0.716 | 0.795 | 0.567 | 0.438 |

Part ID= CAL-T - CAL FIELD PISTON

CAL-T YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | FRTOT | RRTOT |
|--------------------------|--------|-------|-------|--------|-------|-------|--------|
| Adams, Patrick | -1.03 | -1.35 | -0.66 | 0.24 | -0.09 | 0.96 | -0.41 |
| Avis, Steven | -0.49 | -1.10 | -0.51 | -1.47 | 1.04 | 0.16 | 0.04 |
| Barrera, Tony | 0.90 | 0.68 | 0.11 | -0.24 | -0.46 | 0.51 | 0.48 |
| Cales, Jonathon | 0.50 | -0.08 | -0.66 | 1.06 | -0.73 | -0.92 | -0.62 |
| Campbell, Bryan | 1.16 | 0.55 | 0.13 | 1.59 | 0.21 | 0.07 | 1.14 |
| Caproni, David | -0.49 | 0.68 | -0.42 | 1.24 | -0.72 | 0.07 | 1.53 |
| Castillo, George | -0.10 | -1.10 | 3.41 | -1.36 | 1.40 | 0.62 | -0.76 |
| Foecking, Brian | 0.83 | 0.93 | -0.77 | -0.56 | -0.84 | -0.24 | -0.37 |
| Greenland, Paul | -1.95 | -1.10 | -0.49 | 0.38 | -0.20 | -0.54 | 0.34 |
| Hills, Barry | 0.30 | -0.21 | -0.84 | 0.56 | -0.39 | -0.49 | -0.76 |
| Hurst, Kevin R. | 0.04 | -0.08 | -0.11 | 0.22 | -0.23 | -1.55 | -1.83 |
| Kobrinetz, Joaquin J. | -0.63 | 0.30 | -0.24 | -0.06 | -0.43 | -0.77 | -1.33 |
| Lopez, Frank | 1.10 | 1.19 | 0.60 | -0.10 | -0.15 | 1.04 | 1.46 |
| Lowsky, John | -1.36 | 1.31 | -0.53 | 1.20 | -0.25 | 0.34 | -0.07 |
| Potocar, William P | 0.04 | -0.21 | -0.91 | -0.27 | -0.82 | -1.06 | -0.53 |
| Rodriguez, Jesus (Jesse) | 0.24 | -1.10 | 2.15 | -1.50 | 0.49 | -0.42 | -0.12 |
| Sanchez, Arthur | -1.49 | -1.10 | -0.20 | -2.39 | 3.62 | 2.31 | 1.41 |
| Seiz, Ray | 1.83 | -0.08 | 0.20 | 0.71 | -0.23 | 0.02 | -1.05 |
| Swanson, Dennis | 1.63 | 2.46 | 0.27 | 0.82 | 0.10 | -0.53 | -0.73 |
| Veiga, Victor | 0.10 | -1.10 | -0.22 | 0.28 | -0.53 | 2.17 | 1.76 |
| Viera, Ralph B. | -0.36 | -0.21 | 0.05 | -0.39 | -1.01 | -1.41 | -0.44 |
| Zalewski, John | -0.76 | 0.68 | -0.37 | 0.04 | 0.19 | -0.35 | 0.84 |
| MAXIMUM | -1.95 | 2.46 | 3.41 | -2.39 | 3.62 | 2.31 | -1.83 |
| MINIMUM | 0.04 | -0.08 | 0.05 | 0.04 | -0.09 | 0.02 | 0.04 |
| RANGE(MAX-MIN) | -1.991 | 2.537 | 3.365 | -2.430 | 3.711 | 2.294 | -1.874 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= E1-4 - CAL. SEQUENCE V PISTONS

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1MERI | P2MERI | P3MERI | P4MERI |
|-----------------------|--------|--------|--------|--------|
| Adams, Patrick | 9.45 | 9.18 | 9.08 | 9.23 |
| Barrera, Tony | 9.26 | 8.74 | 8.72 | 8.87 |
| Cales, Jonathon | 9.31 | 9.06 | 9.02 | 9.04 |
| Cumberworth, Lee | 9.21 | 8.99 | 8.87 | 9.02 |
| Foecking, Brian | 9.26 | 8.99 | 8.92 | 9.04 |
| Hurst, Kevin R. | 9.09 | 9.01 | 9.00 | 9.01 |
| Kobrinetz, Joaquin J. | 9.19 | 8.95 | 8.93 | 8.97 |
| Lonsway, Chris | 9.20 | 8.68 | 8.40 | 8.47 |
| Lopez, Frank | 9.43 | 9.22 | 9.12 | 9.18 |
| Potocar, William P | 8.84 | 8.43 | 8.31 | 8.45 |
| Seiz, Ray | 9.60 | 8.97 | 9.34 | 9.43 |
| Swanson, Dennis | 9.17 | 9.01 | 8.87 | 8.90 |
| Zalewski, John | 8.51 | 8.82 | 8.39 | 8.73 |
| MAXIMUM | 9.60 | 9.22 | 9.34 | 9.43 |
| MINIMUM | 8.51 | 8.43 | 8.31 | 8.45 |
| RANGE(MAX-MIN) | 1.090 | 0.790 | 1.030 | 0.980 |
| MEAN | 9.194 | 8.927 | 8.844 | 8.949 |
| STANDARD DEVIATION | 0.276 | 0.213 | 0.310 | 0.278 |

Part ID= E1-4 - CAL. SEQUENCE V PISTONS

E1-4 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1MERI | P2MERI | P3MERI | P4MERI |
|-----------------------|--------|--------|--------|--------|
| Adams, Patrick | 0.93 | 1.19 | 0.76 | 1.01 |
| Barrera, Tony | 0.24 | -0.88 | -0.40 | -0.29 |
| Cales, Jonathon | 0.42 | 0.62 | 0.57 | 0.33 |
| Cumberworth, Lee | 0.06 | 0.30 | 0.08 | 0.26 |
| Foecking, Brian | 0.24 | 0.30 | 0.25 | 0.33 |
| Hurst, Kevin R. | -0.38 | 0.39 | 0.50 | 0.22 |
| Kobrinetz, Joaquin J. | -0.01 | 0.11 | 0.28 | 0.07 |
| Lonsway, Chris | 0.02 | -1.16 | -1.43 | -1.73 |
| Lopez, Frank | 0.86 | 1.37 | 0.89 | 0.83 |
| Potocar, William P | -1.28 | -2.33 | -1.72 | -1.80 |
| Seiz, Ray | 1.47 | 0.20 | 1.60 | 1.73 |
| Swanson, Dennis | -0.09 | 0.39 | 0.08 | -0.18 |
| Zalewski, John | -2.48 | -0.50 | -1.47 | -0.79 |
| MAXIMUM | -2.48 | -2.33 | -1.72 | -1.80 |
| MINIMUM | -0.01 | 0.11 | 0.08 | 0.07 |
| RANGE(MAX-MIN) | -2.465 | -2.438 | -1.808 | -1.873 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= F1-4 - CAL. SEQUENCE V PISTONS

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1MERI | P2MERI | P3MERI | P4MERI |
|--------------------------|--------|--------|--------|--------|
| Adams, Patrick | 9.06 | 8.98 | 8.72 | 8.27 |
| Aguirre, Nancy P | 8.44 | 8.41 | 8.24 | 8.18 |
| Cales, Jonathon | 9.00 | 8.88 | 8.58 | 8.52 |
| Caproni, David | 9.03 | 8.72 | 8.71 | 8.48 |
| Cumberworth, Lee | 8.78 | 8.73 | 8.61 | 8.22 |
| Foecking, Brian | 9.06 | 8.85 | 8.50 | 8.33 |
| Kobrinetz, Joaquin J. | 8.81 | 8.71 | 8.66 | 8.16 |
| Kraemer, Vernon | 8.56 | 8.29 | 8.35 | 8.06 |
| Lowsky, John | 9.17 | 9.07 | 8.83 | 8.84 |
| Potocar, William P | 8.57 | 8.46 | 8.03 | 8.24 |
| Rodriguez, Jesus (Jesse) | 8.57 | 8.64 | 8.23 | 7.81 |
| Seiz, Ray | 9.26 | 8.95 | 8.57 | 8.77 |
| Veiga, Victor | 8.98 | 8.73 | 8.17 | 7.75 |
| MAXIMUM | 9.26 | 9.07 | 8.83 | 8.84 |
| MINIMUM | 8.44 | 8.29 | 8.03 | 7.75 |
| RANGE(MAX-MIN) | 0.820 | 0.780 | 0.800 | 1.090 |
| MEAN | 8.868 | 8.725 | 8.477 | 8.279 |
| STANDARD DEVIATION | 0.265 | 0.231 | 0.248 | 0.321 |

Part ID= F1-4 - CAL. SEQUENCE V PISTONS

F1-4 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1MERI | P2MERI | P3MERI | P4MERI |
|--------------------------|--------|--------|--------|--------|
| Adams, Patrick | 0.72 | 1.11 | 0.98 | -0.03 |
| Aguirre, Nancy P | -1.62 | -1.36 | -0.96 | -0.31 |
| Cales, Jonathon | 0.50 | 0.67 | 0.42 | 0.75 |
| Caproni, David | 0.61 | -0.02 | 0.94 | 0.63 |
| Cumberworth, Lee | -0.33 | 0.02 | 0.54 | -0.18 |
| Foecking, Brian | 0.72 | 0.54 | 0.09 | 0.16 |
| Kobrinetz, Joaquin J. | -0.22 | -0.06 | 0.74 | -0.37 |
| Kraemer, Vernon | -1.16 | -1.88 | -0.51 | -0.68 |
| Lowsky, John | 1.14 | 1.49 | 1.43 | 1.75 |
| Potocar, William P | -1.13 | -1.15 | -1.80 | -0.12 |
| Rodriguez, Jesus (Jesse) | -1.13 | -0.37 | -1.00 | -1.46 |
| Seiz, Ray | 1.48 | 0.98 | 0.38 | 1.53 |
| Veiga, Victor | 0.42 | 0.02 | -1.24 | -1.65 |
| MAXIMUM | -1.62 | -1.88 | -1.80 | 1.75 |
| MINIMUM | -0.22 | -0.02 | 0.09 | -0.03 |
| RANGE(MAX-MIN) | -1.397 | -1.861 | -1.898 | 1.778 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= G1-4 - CAL. SEQUENCE V PISTONS

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1MERI | P2MERI | P3MERI | P4MERI |
|--------------------------|--------|--------|--------|--------|
| Aguirre, Nancy P | 8.67 | 8.57 | 8.28 | 8.23 |
| Avis, Steven | 9.17 | 8.67 | 8.56 | 8.59 |
| Caproni, David | 9.04 | 8.82 | 8.60 | 8.62 |
| Castillo, George | 8.51 | 8.59 | 8.10 | 8.32 |
| Greenland, Paul | 8.77 | 8.44 | 8.33 | 7.95 |
| Hills, Barry | 8.71 | 8.61 | 8.57 | 8.57 |
| Kobrinetz, Joaquin J. | 8.96 | 8.64 | 8.28 | 8.28 |
| Kraemer, Vernon | 8.44 | 8.45 | 8.27 | 8.17 |
| Lonsway, Chris | 9.01 | 8.62 | 8.32 | 8.34 |
| Lowsky, John | 9.46 | 8.89 | 9.00 | 8.76 |
| May, Marianne | 9.03 | 8.76 | 8.53 | 8.35 |
| Rodríguez, Jesus (Jesse) | 8.96 | 8.85 | 7.78 | 7.53 |
| Sanchez, Arthur | 9.25 | 9.20 | 8.68 | 8.37 |
| Trevino, Bobby | 8.83 | 8.71 | 8.58 | 8.52 |
| Veiga, Victor | 8.34 | 7.53 | 8.32 | 8.12 |
| Viera, Ralph B. | 8.50 | 8.49 | 8.29 | 8.08 |
| MAXIMUM | 9.46 | 9.20 | 9.00 | 8.76 |
| MINIMUM | 8.34 | 7.53 | 7.78 | 7.53 |
| RANGE(MAX-MIN) | 1.120 | 1.670 | 1.220 | 1.230 |
| MEAN | 8.853 | 8.615 | 8.406 | 8.300 |
| STANDARD DEVIATION | 0.314 | 0.347 | 0.275 | 0.300 |

Part ID= G1-4 - CAL. SEQUENCE V PISTONS

G1-4 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1MERI | P2MERI | P3MERI | P4MERI |
|--------------------------|--------|--------|--------|--------|
| Aguirre, Nancy P | -0.58 | -0.13 | -0.46 | -0.23 |
| Avis, Steven | 1.01 | 0.16 | 0.56 | 0.97 |
| Caproni, David | 0.60 | 0.59 | 0.71 | 1.07 |
| Castillo, George | -1.09 | -0.07 | -1.11 | 0.07 |
| Greenland, Paul | -0.26 | -0.50 | -0.28 | -1.17 |
| Hills, Barry | -0.46 | -0.01 | 0.60 | 0.90 |
| Kobrinetz, Joaquin J. | 0.34 | 0.07 | -0.46 | -0.07 |
| Kraemer, Vernon | -1.32 | -0.48 | -0.49 | -0.43 |
| Lonsway, Chris | 0.50 | 0.01 | -0.31 | 0.13 |
| Lowsky, John | 1.93 | 0.79 | 2.16 | 1.53 |
| May, Marianne | 0.56 | 0.42 | 0.45 | 0.17 |
| Rodríguez, Jesus (Jesse) | 0.34 | 0.68 | -2.28 | -2.57 |
| Sanchez, Arthur | 1.26 | 1.69 | 1.00 | 0.23 |
| Trevino, Bobby | -0.07 | 0.27 | 0.63 | 0.73 |
| Veiga, Victor | -1.63 | -3.13 | -0.31 | -0.60 |
| Viera, Ralph B. | -1.13 | -0.36 | -0.42 | -0.73 |
| MAXIMUM | 1.93 | -3.13 | -2.28 | -2.57 |
| MINIMUM | -0.07 | -0.01 | -0.28 | 0.07 |
| RANGE(MAX-MIN) | 2.007 | -3.116 | -2.003 | -2.636 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= H1-4 - CAL. SEQUENCE V PISTONS

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1MERI | P2MERI | P3MERI | P4MERI |
|-----------------------|--------|--------|--------|--------|
| Avis, Steven | 9.29 | 9.35 | 9.11 | 9.05 |
| Barrera, Tony | 8.80 | 8.86 | 8.48 | 8.43 |
| Castillo, George | 9.07 | 9.07 | 8.70 | 8.57 |
| Cumberworth, Lee | 9.08 | 9.13 | 9.00 | 8.87 |
| Greenland, Paul | 9.05 | 9.22 | 9.02 | 9.02 |
| Hills, Barry | 8.95 | 9.00 | 8.81 | 8.74 |
| Hurst, Kevin R. | 9.22 | 9.28 | 9.27 | 9.22 |
| Kobrinetz, Joaquin J. | 8.96 | 9.07 | 8.94 | 8.60 |
| Lonsway, Chris | 9.40 | 9.51 | 9.37 | 9.04 |
| Lopez, Frank | 9.35 | 9.41 | 9.25 | 9.05 |
| May, Marianne | 9.16 | 9.31 | 9.24 | 9.14 |
| Sanchez, Arthur | 9.25 | 9.26 | 9.29 | 9.24 |
| Swanson, Dennis | 8.69 | 8.69 | 8.48 | 8.30 |
| Viera, Ralph B. | 8.98 | 9.08 | 8.39 | 8.92 |
| Zalewski, John | 9.13 | 9.35 | 9.06 | 9.04 |
| MAXIMUM | 9.40 | 9.51 | 9.37 | 9.24 |
| MINIMUM | 8.69 | 8.69 | 8.39 | 8.30 |
| RANGE(MAX-MIN) | 0.710 | 0.820 | 0.980 | 0.940 |
| MEAN | 9.092 | 9.173 | 8.961 | 8.882 |
| STANDARD DEVIATION | 0.198 | 0.218 | 0.322 | 0.290 |

Part ID= H1-4 - CAL. SEQUENCE V PISTONS

H1-4 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1MERI | P2MERI | P3MERI | P4MERI |
|-----------------------|--------|--------|--------|--------|
| Avis, Steven | 1.00 | 0.81 | 0.46 | 0.58 |
| Barrera, Tony | -1.48 | -1.43 | -1.49 | -1.56 |
| Castillo, George | -0.11 | -0.47 | -0.81 | -1.08 |
| Cumberworth, Lee | -0.06 | -0.20 | 0.12 | -0.04 |
| Greenland, Paul | -0.21 | 0.22 | 0.18 | 0.48 |
| Hills, Barry | -0.72 | -0.79 | -0.47 | -0.49 |
| Hurst, Kevin R. | 0.65 | 0.49 | 0.96 | 1.17 |
| Kobrinetz, Joaquin J. | -0.67 | -0.47 | -0.06 | -0.97 |
| Lonsway, Chris | 1.56 | 1.55 | 1.27 | 0.55 |
| Lopez, Frank | 1.30 | 1.09 | 0.90 | 0.58 |
| May, Marianne | 0.34 | 0.63 | 0.87 | 0.89 |
| Sanchez, Arthur | 0.80 | 0.40 | 1.02 | 1.24 |
| Swanson, Dennis | -2.03 | -2.21 | -1.49 | -2.01 |
| Viera, Ralph B. | -0.57 | -0.43 | -1.77 | 0.13 |
| Zalewski, John | 0.19 | 0.81 | 0.31 | 0.55 |
| MAXIMUM | -2.03 | -2.21 | -1.77 | -2.01 |
| MINIMUM | -0.06 | -0.20 | -0.06 | -0.04 |
| RANGE(MAX-MIN) | -1.972 | -2.018 | -1.709 | -1.967 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= PTCAL - CALIBRATION PISTON TOPS

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1MERI | P2MERI |
|--------------------------|--------|--------|
| Adams, Patrick | 7.79 | 7.95 |
| Barrera, Tony | 7.53 | 7.17 |
| Campbell, Bryan | 8.14 | 8.41 |
| Castillo, George | 7.44 | 7.13 |
| Cumberworth, Lee | 7.94 | 8.02 |
| Foecking, Brian | 8.59 | 8.79 |
| Kobrinetz, Joaquin J. | 7.82 | 7.90 |
| Lonsway, Chris | 8.76 | 8.66 |
| Lopez, Frank | 8.39 | 8.36 |
| Lowsky, John | 7.91 | 8.06 |
| Millward, Glen | 8.24 | 8.27 |
| Rodriguez, Jesus (Jesse) | 7.60 | 7.54 |
| Sanchez, Arthur | 7.86 | 7.88 |
| Seiz, Ray | 8.20 | 8.13 |
| MAXIMUM | 8.76 | 8.79 |
| MINIMUM | 7.44 | 7.13 |
| RANGE(MAX-MIN) | 1.320 | 1.660 |
| MEAN | 8.015 | 8.019 |
| STANDARD DEVIATION | 0.392 | 0.491 |

Part ID= PTCAL - CALIBRATION PISTON TOPS

PTCAL YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1MERI | P2MERI |
|--------------------------|--------|--------|
| Adams, Patrick | -0.57 | -0.14 |
| Barrera, Tony | -1.24 | -1.73 |
| Campbell, Bryan | 0.32 | 0.80 |
| Castillo, George | -1.47 | -1.81 |
| Cumberworth, Lee | -0.19 | 0.00 |
| Foecking, Brian | 1.47 | 1.57 |
| Kobrinetz, Joaquin J. | -0.50 | -0.24 |
| Lonsway, Chris | 1.90 | 1.31 |
| Lopez, Frank | 0.96 | 0.69 |
| Lowsky, John | -0.27 | 0.08 |
| Millward, Glen | 0.57 | 0.51 |
| Rodriguez, Jesus (Jesse) | -1.06 | -0.98 |
| Sanchez, Arthur | -0.40 | -0.28 |
| Seiz, Ray | 0.47 | 0.23 |
| MAXIMUM | 1.90 | -1.81 |
| MINIMUM | -0.19 | 0.00 |
| RANGE(MAX-MIN) | 2.094 | -1.814 |
| MEAN | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VALCAL - CALIBRATION INTAKE VALVES

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1 | P2 |
|--------------------------|-------|-------|
| Adams, Patrick | 8.60 | 9.30 |
| Avis, Steven | 8.50 | 8.60 |
| Barrera, Tony | 9.20 | 9.10 |
| Campbell, Bryan | 8.10 | 8.60 |
| Castillo, George | 9.20 | 9.00 |
| Cumberworth, Lee | 9.20 | 8.70 |
| Foecking, Brian | 9.30 | 9.20 |
| Kobrinetz, Joaquin J. | 9.20 | 9.00 |
| Lonsway, Chris | 9.20 | 9.00 |
| Lopez, Frank | 9.10 | 9.20 |
| Lowsky, John | 9.10 | 9.45 |
| May, Marianne | 9.00 | 9.20 |
| Millward, Glen | 8.50 | 9.20 |
| Rodriguez, Jesus (Jesse) | 9.00 | 8.70 |
| Sanchez, Arthur | 9.10 | 9.00 |
| Seiz, Ray | 9.20 | 9.30 |
| Viera, Ralph B. | 9.20 | 9.00 |
| MAXIMUM | 9.30 | 9.45 |
| MINIMUM | 8.10 | 8.60 |
| RANGE(MAX-MIN) | 1.200 | 0.850 |
| MEAN | 8.982 | 9.032 |
| STANDARD DEVIATION | 0.341 | 0.254 |

Part ID= VALCAL - CALIBRATION INTAKE VALVES

VALCAL YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1 | P2 |
|--------------------------|--------|--------|
| Adams, Patrick | -1.12 | 1.05 |
| Avis, Steven | -1.41 | -1.70 |
| Barrera, Tony | 0.64 | 0.27 |
| Campbell, Bryan | -2.58 | -1.70 |
| Castillo, George | 0.64 | -0.13 |
| Cumberworth, Lee | 0.64 | -1.31 |
| Foecking, Brian | 0.93 | 0.66 |
| Kobrinetz, Joaquin J. | 0.64 | -0.13 |
| Lonsway, Chris | 0.64 | -0.13 |
| Lopez, Frank | 0.34 | 0.66 |
| Lowsky, John | 0.34 | 1.64 |
| May, Marianne | 0.05 | 0.66 |
| Millward, Glen | -1.41 | 0.66 |
| Rodriguez, Jesus (Jesse) | 0.05 | -1.31 |
| Sanchez, Arthur | 0.34 | -0.13 |
| Seiz, Ray | 0.64 | 1.05 |
| Viera, Ralph B. | 0.64 | -0.13 |
| MAXIMUM | -2.58 | -1.70 |
| MINIMUM | 0.05 | -0.13 |
| RANGE(MAX-MIN) | -2.636 | -1.573 |
| MEAN | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VSCALL - CAL VG RC BAFFLE SLUDGE L

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | TOTALS | |
|--------------------------|--------|--|
| Adams, Patrick | 9.20 | |
| Aguirre, Nancy P | 9.30 | |
| Avis, Steven | 9.14 | |
| Barrera, Tony | 9.25 | |
| Cales, Jonathon | 9.09 | |
| Campbell, Bryan | 9.23 | |
| Caproni, David | 9.06 | |
| Castillo, George | 9.22 | |
| Cumberworth, Lee | 9.25 | |
| Foecking, Brian | 8.96 | |
| Greenland, Paul | 9.29 | |
| Hills, Barry | 9.02 | |
| Hurst, Kevin R. | 9.40 | |
| Kobrinetz, Joaquin J. | 9.06 | |
| Lonsway, Chris | 9.22 | |
| Lopez, Frank | 9.29 | |
| Lowsky, John | 9.00 | |
| May, Marianne | 9.30 | |
| Millward, Glen | 9.33 | |
| Potocar, William P | 8.98 | |
| Rodriguez, Jesus (Jesse) | 9.10 | |
| Sanchez, Arthur | 9.02 | |
| Seiz, Ray | 9.10 | |
| Terrado, Ken | 9.30 | |
| Trevino, Bobby | 9.25 | |
| Veiga, Victor | 9.40 | |
| Viera, Ralph B. | 9.14 | |
| Zalewski, John | 9.23 | |
| MAXIMUM | 9.40 | |
| MINIMUM | 8.96 | |
| RANGE(MAX-MIN) | 0.440 | |
| MEAN | 9.183 | |
| STANDARD DEVIATION | 0.127 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VSCALL - CAL VG RC BAFFLE SLUDGE L

VSCALL Yi Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | TOTALS | |
|--------------------------|--------|--|
| Adams, Patrick | 0.13 | |
| Aguirre, Nancy P | 0.92 | |
| Avis, Steven | -0.34 | |
| Barrera, Tony | 0.53 | |
| Cales, Jonathon | -0.73 | |
| Campbell, Bryan | 0.37 | |
| Caproni, David | -0.97 | |
| Castillo, George | 0.29 | |
| Cumberworth, Lee | 0.53 | |
| Foecking, Brian | -1.76 | |
| Greenland, Paul | 0.84 | |
| Hills, Barry | -1.29 | |
| Hurst, Kevin R. | 1.71 | |
| Kobrinetz, Joaquin J. | -0.97 | |
| Lonsway, Chris | 0.29 | |
| Lopez, Frank | 0.84 | |
| Lowsky, John | -1.44 | |
| May, Marianne | 0.92 | |
| Millward, Glen | 1.16 | |
| Potocar, William P | -1.60 | |
| Rodriguez, Jesus (Jesse) | -0.66 | |
| Sanchez, Arthur | -1.29 | |
| Seiz, Ray | -0.66 | |
| Terrado, Ken | 0.92 | |
| Trevino, Bobby | 0.53 | |
| Veiga, Victor | 1.71 | |
| Viera, Ralph B. | -0.34 | |
| Zalewski, John | 0.37 | |
| MAXIMUM | -1.76 | |
| MINIMUM | 0.13 | |
| RANGE(MAX-MIN) | -1.892 | |
| MEAN | 0.000 | |
| STANDARD DEVIATION | 1.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VSCALR - CAL VG RC BAFFLE SLUDGE R

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | TOTALS | |
|--------------------------|--------|--|
| Adams, Patrick | 9.15 | |
| Aguirre, Nancy P | 9.24 | |
| Avis, Steven | 9.19 | |
| Barrera, Tony | 9.24 | |
| Cales, Jonathon | 9.09 | |
| Campbell, Bryan | 9.29 | |
| Caproni, David | 9.22 | |
| Castillo, George | 8.96 | |
| Cumberworth, Lee | 9.16 | |
| Foecking, Brian | 9.02 | |
| Greenland, Paul | 9.28 | |
| Hills, Barry | 9.11 | |
| Hurst, Kevin R. | 9.47 | |
| Kobrinetz, Joaquin J. | 9.01 | |
| Lonsway, Chris | 9.22 | |
| Lopez, Frank | 9.35 | |
| Lowsky, John | 9.01 | |
| May, Marianne | 9.19 | |
| Millward, Glen | 9.16 | |
| Potocar, William P | 9.13 | |
| Rodriguez, Jesus (Jesse) | 9.17 | |
| Sanchez, Arthur | 9.05 | |
| Seiz, Ray | 9.10 | |
| Terrado, Ken | 9.28 | |
| Trevino, Bobby | 9.25 | |
| Veiga, Victor | 9.46 | |
| Viera, Ralph B. | 9.16 | |
| Zalewski, John | 9.14 | |
| MAXIMUM | 9.47 | |
| MINIMUM | 8.96 | |
| RANGE(MAX-MIN) | 0.510 | |
| MEAN | 9.182 | |
| STANDARD DEVIATION | 0.124 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VSCALR - CAL VG RC BAFFLE SLUDGE R

VSCALR Yi Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | TOTALS | |
|--------------------------|--------|--|
| Adams, Patrick | -0.26 | |
| Aguirre, Nancy P | 0.47 | |
| Avis, Steven | 0.06 | |
| Barrera, Tony | 0.47 | |
| Cales, Jonathon | -0.74 | |
| Campbell, Bryan | 0.87 | |
| Caproni, David | 0.31 | |
| Castillo, George | -1.80 | |
| Cumberworth, Lee | -0.18 | |
| Foecking, Brian | -1.31 | |
| Greenland, Paul | 0.79 | |
| Hills, Barry | -0.58 | |
| Hurst, Kevin R. | 2.33 | |
| Kobrinetz, Joaquin J. | -1.39 | |
| Lonsway, Chris | 0.31 | |
| Lopez, Frank | 1.36 | |
| Lowsky, John | -1.39 | |
| May, Marianne | 0.06 | |
| Millward, Glen | -0.18 | |
| Potocar, William P | -0.42 | |
| Rodriguez, Jesus (Jesse) | -0.10 | |
| Sanchez, Arthur | -1.07 | |
| Seiz, Ray | -0.66 | |
| Terrado, Ken | 0.79 | |
| Trevino, Bobby | 0.55 | |
| Veiga, Victor | 2.25 | |
| Viera, Ralph B. | -0.18 | |
| Zalewski, John | -0.34 | |
| MAXIMUM | 2.33 | |
| MINIMUM | 0.06 | |
| RANGE(MAX-MIN) | 2.263 | |
| MEAN | 0.000 | |
| STANDARD DEVIATION | 1.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VVCALL - CAL VG RC BAFFLE VARNISH L

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | AVERAG | |
|--------------------------|--------|--|
| Adams, Patrick | 9.80 | |
| Aguirre, Nancy P | 9.50 | |
| Avis, Steven | 9.77 | |
| Barrera, Tony | 9.68 | |
| Cales, Jonathon | 9.75 | |
| Campbell, Bryan | 9.38 | |
| Caproni, David | 9.68 | |
| Castillo, George | 9.73 | |
| Cumberworth, Lee | 9.72 | |
| Foecking, Brian | 9.54 | |
| Hills, Barry | 9.78 | |
| Hurst, Kevin R. | 9.68 | |
| Kobrinetz, Joaquin J. | 9.80 | |
| Lonsway, Chris | 9.74 | |
| Lopez, Frank | 9.80 | |
| Lowsky, John | 9.85 | |
| May, Marianne | 9.65 | |
| Millward, Glen | 9.68 | |
| Potocar, William P | 9.67 | |
| Rodriguez, Jesus (Jesse) | 9.82 | |
| Sanchez, Arthur | 9.50 | |
| Seiz, Ray | 9.73 | |
| Terrado, Ken | 9.70 | |
| Trevino, Bobby | 9.70 | |
| Veiga, Victor | 9.61 | |
| Viera, Ralph B. | 9.55 | |
| Zalewski, John | 9.70 | |
| MAXIMUM | 9.85 | |
| MINIMUM | 9.38 | |
| RANGE(MAX-MIN) | 0.470 | |
| MEAN | 9.686 | |
| STANDARD DEVIATION | 0.111 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VVCALL - CAL VG RC BAFFLE VARNISH L

VVCALL Yi Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | AVERAG | |
|--------------------------|--------|--|
| Adams, Patrick | 1.03 | |
| Aguirre, Nancy P | -1.67 | |
| Avis, Steven | 0.76 | |
| Barrera, Tony | -0.05 | |
| Cales, Jonathon | 0.58 | |
| Campbell, Bryan | -2.74 | |
| Caproni, David | -0.05 | |
| Castillo, George | 0.40 | |
| Cumberworth, Lee | 0.31 | |
| Foecking, Brian | -1.31 | |
| Hills, Barry | 0.85 | |
| Hurst, Kevin R. | -0.05 | |
| Kobrinetz, Joaquin J. | 1.03 | |
| Lonsway, Chris | 0.49 | |
| Lopez, Frank | 1.03 | |
| Lowsky, John | 1.48 | |
| May, Marianne | -0.32 | |
| Millward, Glen | -0.05 | |
| Potocar, William P | -0.14 | |
| Rodriguez, Jesus (Jesse) | 1.21 | |
| Sanchez, Arthur | -1.67 | |
| Seiz, Ray | 0.40 | |
| Terrado, Ken | 0.13 | |
| Trevino, Bobby | 0.13 | |
| Veiga, Victor | -0.68 | |
| Viera, Ralph B. | -1.22 | |
| Zalewski, John | 0.13 | |
| MAXIMUM | -2.74 | |
| MINIMUM | -0.05 | |
| RANGE(MAX-MIN) | -2.694 | |
| MEAN | 0.000 | |
| STANDARD DEVIATION | 1.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VVICALR - CAL VG RC BAFFLE VARNISH R

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | AVERAG | |
|--------------------------|--------|--|
| Adams, Patrick | 9.80 | |
| Aguirre, Nancy P | 9.63 | |
| Avis, Steven | 9.79 | |
| Barrera, Tony | 9.70 | |
| Cales, Jonathon | 9.71 | |
| Campbell, Bryan | 9.00 | |
| Caproni, David | 9.70 | |
| Castillo, George | 9.77 | |
| Cumberworth, Lee | 9.80 | |
| Foecking, Brian | 9.67 | |
| Hills, Barry | 9.80 | |
| Hurst, Kevin R. | 9.68 | |
| Kobrinetz, Joaquin J. | 9.88 | |
| Lonsway, Chris | 9.84 | |
| Lopez, Frank | 9.80 | |
| Lowsky, John | 9.87 | |
| May, Marianne | 9.70 | |
| Millward, Glen | 9.17 | |
| Potocar, William P | 9.69 | |
| Rodriguez, Jesus (Jesse) | 9.85 | |
| Sanchez, Arthur | 9.70 | |
| Seiz, Ray | 9.68 | |
| Terrado, Ken | 9.70 | |
| Trevino, Bobby | 9.70 | |
| Veiga, Victor | 9.68 | |
| Viera, Ralph B. | 9.64 | |
| Zalewski, John | 9.70 | |
| MAXIMUM | 9.88 | |
| MINIMUM | 9.00 | |
| RANGE(MAX-MIN) | 0.880 | |
| MEAN | 9.691 | |
| STANDARD DEVIATION | 0.190 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VVICALR - CAL VG RC BAFFLE VARNISH R

VVICALR Yi Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | AVERAG | |
|--------------------------|--------|--|
| Adams, Patrick | 0.58 | |
| Aguirre, Nancy P | -0.32 | |
| Avis, Steven | 0.52 | |
| Barrera, Tony | 0.05 | |
| Cales, Jonathon | 0.10 | |
| Campbell, Bryan | -3.64 | |
| Caproni, David | 0.05 | |
| Castillo, George | 0.42 | |
| Cumberworth, Lee | 0.58 | |
| Foecking, Brian | -0.11 | |
| Hills, Barry | 0.58 | |
| Hurst, Kevin R. | -0.06 | |
| Kobrinetz, Joaquin J. | 1.00 | |
| Lonsway, Chris | 0.79 | |
| Lopez, Frank | 0.58 | |
| Lowsky, John | 0.94 | |
| May, Marianne | 0.05 | |
| Millward, Glen | -2.74 | |
| Potocar, William P | 0.00 | |
| Rodriguez, Jesus (Jesse) | 0.84 | |
| Sanchez, Arthur | 0.05 | |
| Seiz, Ray | -0.06 | |
| Terrado, Ken | 0.05 | |
| Trevino, Bobby | 0.05 | |
| Veiga, Victor | -0.06 | |
| Viera, Ralph B. | -0.27 | |
| Zalewski, John | 0.05 | |
| MAXIMUM | -3.64 | |
| MINIMUM | 0.00 | |
| RANGE(MAX-MIN) | -3.637 | |
| MEAN | 0.000 | |
| STANDARD DEVIATION | 1.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= A1 - SEQUENCE III

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Adams, Patrick | 1.26 | 0.73 | 8.70 | 0.74 | 0.89 | 2.95 | 9.68 | 9.77 |
| Aguirre, Nancy P | 2.06 | 0.65 | 8.41 | 1.04 | 0.93 | 3.18 | 9.62 | 9.73 |
| Barrera, Tony | 1.47 | 0.68 | 8.14 | 0.91 | 0.80 | 2.83 | 9.64 | 9.71 |
| Campbell, Bryan | 2.71 | 0.77 | 7.92 | 0.53 | 1.34 | 2.75 | 9.77 | 9.77 |
| Castillo, George | 1.99 | 0.71 | 8.71 | 1.04 | 0.84 | 3.04 | 9.80 | 9.85 |
| Greenland, Paul | 1.99 | 0.68 | 8.85 | 0.49 | 0.93 | 3.15 | 9.75 | 9.79 |
| Hurst, Kevin R. | 1.99 | 0.66 | 8.22 | 0.89 | 0.88 | 2.23 | 9.84 | 9.84 |
| Kraemer, Vernon | 2.20 | 0.60 | 8.09 | 0.55 | 0.83 | 4.04 | 9.58 | 9.84 |
| Lopez, Frank | 1.63 | 0.69 | 8.56 | 1.23 | 0.80 | 2.60 | 9.68 | 9.76 |
| May, Marianne | 1.44 | 0.69 | 8.72 | 0.95 | 0.80 | 2.66 | 9.72 | 9.88 |
| Rodriguez, Jesus (Jesse) | 1.85 | 0.70 | 8.51 | 0.97 | 0.89 | 2.77 | 9.74 | 9.78 |
| Swanson, Dennis | 2.13 | 0.52 | 7.77 | 0.59 | 0.92 | 2.80 | 9.45 | 9.58 |
| Trevino, Bobby | 1.85 | 0.70 | 8.54 | 0.90 | 0.89 | 2.89 | 9.70 | 9.74 |
| Veiga, Victor | 1.99 | 0.72 | 8.91 | 0.76 | 0.81 | 3.10 | 9.70 | 9.75 |
| Zalewski, John | 1.99 | 0.69 | 8.59 | 0.71 | 0.88 | 3.10 | 9.35 | 9.56 |
| MAXIMUM | 2.71 | 0.77 | 8.91 | 1.23 | 1.34 | 4.04 | 9.84 | 9.88 |
| MINIMUM | 1.26 | 0.52 | 7.77 | 0.49 | 0.80 | 2.23 | 9.35 | 9.56 |
| RANGE(MAX-MIN) | 1.450 | 0.250 | 1.140 | 0.740 | 0.540 | 1.810 | 0.490 | 0.320 |
| MEAN | 1.903 | 0.679 | 8.443 | 0.820 | 0.895 | 2.939 | 9.668 | 9.757 |
| STANDARD DEVIATION | 0.353 | 0.058 | 0.342 | 0.218 | 0.132 | 0.394 | 0.129 | 0.090 |

Part ID= A1 - SEQUENCE III

A1 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|--------------------------|-------|--------|--------|-------|-------|-------|--------|--------|
| Adams, Patrick | -1.82 | 0.87 | 0.75 | -0.37 | -0.04 | 0.03 | 0.09 | 0.15 |
| Aguirre, Nancy P | 0.44 | -0.50 | -0.10 | 1.01 | 0.26 | 0.61 | -0.37 | -0.30 |
| Barrera, Tony | -1.23 | 0.01 | -0.88 | 0.41 | -0.72 | -0.28 | -0.22 | -0.52 |
| Campbell, Bryan | 2.28 | 1.56 | -1.53 | -1.33 | 3.37 | -0.48 | 0.79 | 0.15 |
| Castillo, George | 0.25 | 0.53 | 0.78 | 1.01 | -0.42 | 0.26 | 1.02 | 1.04 |
| Greenland, Paul | 0.25 | 0.01 | 1.19 | -1.51 | 0.26 | 0.54 | 0.63 | 0.37 |
| Hurst, Kevin R. | 0.25 | -0.33 | -0.65 | 0.32 | -0.12 | -1.80 | 1.33 | 0.93 |
| Kraemer, Vernon | 0.84 | -1.36 | -1.03 | -1.24 | -0.50 | 2.80 | -0.68 | 0.93 |
| Lopez, Frank | -0.77 | 0.18 | 0.34 | 1.88 | -0.72 | -0.86 | 0.09 | 0.04 |
| May, Marianne | -1.31 | 0.18 | 0.81 | 0.60 | -0.72 | -0.71 | 0.40 | 1.37 |
| Rodriguez, Jesus (Jesse) | -0.15 | 0.35 | 0.20 | 0.69 | -0.04 | -0.43 | 0.56 | 0.26 |
| Swanson, Dennis | 0.64 | -2.74 | -1.96 | -1.06 | 0.19 | -0.35 | -1.69 | -1.97 |
| Trevino, Bobby | -0.15 | 0.35 | 0.28 | 0.37 | -0.04 | -0.13 | 0.25 | -0.19 |
| Veiga, Victor | 0.25 | 0.70 | 1.37 | -0.28 | -0.65 | 0.41 | 0.25 | -0.07 |
| Zalewski, John | 0.25 | 0.18 | 0.43 | -0.50 | -0.12 | 0.41 | -2.46 | -2.19 |
| MAXIMUM | 2.28 | -2.74 | -1.96 | 1.88 | 3.37 | 2.80 | -2.46 | -2.19 |
| MINIMUM | -0.15 | 0.01 | -0.10 | -0.28 | -0.04 | 0.03 | 0.09 | 0.04 |
| RANGE(MAX-MIN) | 2.433 | -2.747 | -1.870 | 2.157 | 3.415 | 2.768 | -2.553 | -2.227 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= A2 - SEQUENCE III

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THIOT | ATTOT |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Adams, Patrick | 4.80 | 0.64 | 9.20 | 0.54 | 2.04 | 6.73 | 9.33 | 9.90 |
| Aguirre, Nancy P | 3.85 | 0.63 | 8.89 | 0.78 | 2.42 | 6.66 | 9.15 | 9.91 |
| Barrera, Tony | 3.91 | 0.65 | 9.03 | 0.42 | 2.30 | 6.47 | 9.25 | 9.97 |
| Campbell, Bryan | 5.42 | 0.87 | 8.59 | 0.72 | 3.00 | 6.38 | 9.21 | 9.80 |
| Castillo, George | 4.33 | 0.71 | 9.27 | 0.66 | 2.38 | 6.71 | 9.52 | 10.00 |
| Greenland, Paul | 6.12 | 0.68 | 9.12 | 0.36 | 2.34 | 6.03 | 9.48 | 9.90 |
| Grundza, Richard | 2.90 | 0.77 | 8.77 | 0.37 | 2.85 | 6.64 | 9.36 | 9.90 |
| Hurst, Kevin R. | 5.63 | 0.60 | 8.96 | 0.74 | 1.84 | 6.72 | 9.58 | 9.90 |
| Lopez, Frank | 4.34 | 0.65 | 9.05 | 0.68 | 2.75 | 6.50 | 9.40 | 9.90 |
| May, Marianne | 2.24 | 0.71 | 9.34 | 0.41 | 2.70 | 7.02 | 9.45 | 9.98 |
| Rodriguez, Jesus (Jesse) | 4.16 | 0.73 | 9.17 | 0.73 | 2.03 | 6.88 | 9.43 | 9.90 |
| Swanson, Dennis | 4.84 | 0.77 | 8.26 | 0.42 | 2.50 | 6.50 | 9.06 | 9.98 |
| Trevino, Bobby | 4.57 | 0.81 | 9.19 | 0.53 | 2.61 | 6.37 | 9.62 | 9.89 |
| Veiga, Victor | 4.98 | 0.65 | 9.25 | 0.53 | 2.88 | 5.68 | 9.62 | 9.80 |
| Zalewski, John | 5.56 | 0.65 | 9.05 | 0.47 | 2.69 | 6.12 | 9.20 | 10.00 |
| MAXIMUM | 6.12 | 0.87 | 9.34 | 0.78 | 3.00 | 7.02 | 9.62 | 10.00 |
| MINIMUM | 2.24 | 0.60 | 8.26 | 0.36 | 1.84 | 5.68 | 9.06 | 9.80 |
| RANGE(MAX-MIN) | 3.880 | 0.270 | 1.080 | 0.420 | 1.160 | 1.340 | 0.560 | 0.200 |
| MEAN | 4.510 | 0.701 | 9.009 | 0.557 | 2.489 | 6.494 | 9.377 | 9.915 |
| STANDARD DEVIATION | 1.032 | 0.076 | 0.288 | 0.148 | 0.340 | 0.346 | 0.175 | 0.062 |

Part ID= A2 - SEQUENCE III

A2 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THIOT | ATTOT |
|--------------------------|--------|-------|--------|-------|--------|--------|--------|--------|
| Adams, Patrick | 0.28 | -0.81 | 0.66 | -0.12 | -1.32 | 0.68 | -0.27 | -0.25 |
| Aguirre, Nancy P | -0.64 | -0.94 | -0.42 | 1.50 | -0.20 | 0.48 | -1.30 | -0.09 |
| Barrera, Tony | -0.58 | -0.68 | 0.07 | -0.93 | -0.55 | -0.07 | -0.73 | 0.88 |
| Campbell, Bryan | 0.88 | 2.22 | -1.46 | 1.10 | 1.50 | -0.33 | -0.96 | -1.85 |
| Castillo, George | -0.17 | 0.11 | 0.91 | 0.69 | -0.32 | 0.62 | 0.82 | 1.36 |
| Greenland, Paul | 1.56 | -0.28 | 0.38 | -1.33 | -0.44 | -1.34 | 0.59 | -0.25 |
| Grundza, Richard | -1.56 | 0.90 | -0.83 | -1.26 | 1.06 | 0.42 | -0.10 | -0.25 |
| Hurst, Kevin R. | 1.09 | -1.33 | -0.17 | 1.23 | -1.91 | 0.65 | 1.16 | -0.25 |
| Lopez, Frank | -0.16 | -0.68 | 0.14 | 0.83 | 0.77 | 0.02 | 0.13 | -0.25 |
| May, Marianne | -2.20 | 0.11 | 1.15 | -0.99 | 0.62 | 1.52 | 0.42 | 1.04 |
| Rodriguez, Jesus (Jesse) | -0.34 | 0.38 | 0.56 | 1.16 | -1.35 | 1.12 | 0.30 | -0.25 |
| Swanson, Dennis | 0.32 | 0.90 | -2.61 | -0.93 | 0.03 | 0.02 | -1.81 | 1.04 |
| Trevino, Bobby | 0.06 | 1.43 | 0.63 | -0.18 | 0.36 | -0.36 | 1.39 | -0.41 |
| Veiga, Victor | 0.46 | -0.68 | 0.84 | -0.18 | 1.15 | -2.35 | 1.39 | -1.85 |
| Zalewski, John | 1.02 | -0.68 | 0.14 | -0.59 | 0.59 | -1.08 | -1.01 | 1.36 |
| MAXIMUM | -2.20 | 2.22 | -2.61 | 1.50 | -1.91 | -2.35 | -1.81 | -1.85 |
| MINIMUM | 0.06 | 0.11 | 0.07 | -0.12 | 0.03 | 0.02 | -0.10 | -0.09 |
| RANGE(MAX-MIN) | -2.257 | 2.106 | -2.678 | 1.619 | -1.940 | -2.371 | -1.714 | -1.765 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= A3 - SEQUENCE III

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Adams, Patrick | 3.50 | 0.80 | 9.72 | 0.76 | 3.09 | 8.68 | 9.80 | 9.90 |
| Barrera, Tony | 4.12 | 0.79 | 9.58 | 0.71 | 3.32 | 8.21 | 9.84 | 9.89 |
| Campbell, Bryan | 4.65 | 0.92 | 9.63 | 0.72 | 3.05 | 8.08 | 9.73 | 9.73 |
| Castillo, George | 4.89 | 0.81 | 9.89 | 0.79 | 3.67 | 8.56 | 9.96 | 9.96 |
| Greenland, Paul | 6.08 | 0.74 | 9.92 | 0.64 | 0.77 | 7.65 | 9.85 | 9.90 |
| Grundza, Richard | 4.47 | 0.86 | 9.90 | 0.70 | 3.10 | 7.87 | 9.80 | 9.90 |
| Hurst, Kevin R. | 5.13 | 0.74 | 9.74 | 0.80 | 3.22 | 8.59 | 9.90 | 9.90 |
| Kobrinetz, Joaquin J. | 5.26 | 0.81 | 9.95 | 0.75 | 3.33 | 8.83 | 9.91 | 9.93 |
| Kraemer, Vernon | 6.12 | 0.84 | 9.20 | 0.62 | 2.91 | 8.41 | 9.86 | 9.88 |
| Lopez, Frank | 4.93 | 0.74 | 9.80 | 0.68 | 4.18 | 8.83 | 9.80 | 9.90 |
| May, Marianne | 3.38 | 0.79 | 9.85 | 0.73 | 3.68 | 8.38 | 9.94 | 9.97 |
| Rodriguez, Jesus (Jesse) | 4.15 | 0.78 | 9.86 | 0.74 | 3.04 | 8.95 | 9.90 | 9.90 |
| Swanson, Dennis | 4.08 | 0.86 | 9.69 | 0.46 | 3.59 | 8.45 | 9.96 | 9.98 |
| Trevino, Bobby | 5.16 | 0.88 | 9.76 | 0.75 | 3.76 | 7.61 | 9.85 | 9.94 |
| Veiga, Victor | 4.13 | 0.86 | 9.62 | 0.88 | 3.49 | 7.83 | 9.80 | 9.80 |
| Zalewski, John | 5.93 | 0.70 | 9.80 | 0.99 | 3.39 | 8.21 | 9.95 | 9.95 |
| MAXIMUM | 6.12 | 0.92 | 9.95 | 0.99 | 4.18 | 8.95 | 9.96 | 9.98 |
| MINIMUM | 3.38 | 0.70 | 9.20 | 0.46 | 0.77 | 7.61 | 9.73 | 9.73 |
| RANGE(MAX-MIN) | 2.740 | 0.220 | 0.750 | 0.530 | 3.410 | 1.340 | 0.230 | 0.250 |
| MEAN | 4.749 | 0.808 | 9.744 | 0.733 | 3.224 | 8.321 | 9.866 | 9.902 |
| STANDARD DEVIATION | 0.848 | 0.060 | 0.183 | 0.115 | 0.734 | 0.423 | 0.069 | 0.063 |

Part ID= A3 - SEQUENCE III

A3 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|--------------------------|-------|-------|--------|--------|--------|--------|--------|--------|
| Adams, Patrick | -1.47 | -0.13 | -0.13 | 0.24 | -0.18 | 0.85 | -0.95 | -0.03 |
| Barrera, Tony | -0.74 | -0.29 | -0.90 | -0.20 | 0.13 | -0.26 | -0.37 | -0.19 |
| Campbell, Bryan | -0.12 | 1.88 | -0.62 | -0.11 | -0.24 | -0.57 | -1.96 | -2.73 |
| Castillo, George | 0.17 | 0.04 | 0.79 | 0.50 | 0.61 | 0.56 | 1.37 | 0.92 |
| Greenland, Paul | 1.57 | -1.13 | 0.96 | -0.81 | -3.34 | -1.59 | -0.23 | -0.03 |
| Grundza, Richard | -0.33 | 0.88 | 0.85 | -0.28 | -0.17 | -1.07 | -0.95 | -0.03 |
| Hurst, Kevin R. | 0.45 | -1.13 | -0.02 | 0.59 | -0.01 | 0.64 | 0.50 | -0.03 |
| Kobrinetz, Joaquin J. | 0.60 | 0.04 | 1.12 | 0.15 | 0.14 | 1.20 | 0.64 | 0.45 |
| Kraemer, Vernon | 1.62 | 0.54 | -2.97 | -0.98 | -0.43 | 0.21 | -0.08 | -0.35 |
| Lopez, Frank | 0.21 | -1.13 | 0.30 | -0.46 | 1.30 | 1.20 | -0.95 | -0.03 |
| May, Marianne | -1.61 | -0.29 | 0.58 | -0.02 | 0.62 | 0.14 | 1.08 | 1.08 |
| Rodriguez, Jesus (Jesse) | -0.71 | -0.46 | 0.63 | 0.07 | -0.25 | 1.49 | 0.50 | -0.03 |
| Swanson, Dennis | -0.79 | 0.88 | -0.30 | -2.38 | 0.50 | 0.30 | 1.37 | 1.24 |
| Trevino, Bobby | 0.49 | 1.21 | 0.09 | 0.15 | 0.73 | -1.68 | -0.23 | 0.61 |
| Veiga, Victor | -0.73 | 0.88 | -0.68 | 1.29 | 0.36 | -1.16 | -0.95 | -1.62 |
| Zalewski, John | 1.39 | -1.79 | 0.30 | 2.25 | 0.23 | -0.26 | 1.22 | 0.77 |
| MAXIMUM | 1.62 | 1.88 | -2.97 | -2.38 | -3.34 | -1.68 | -1.96 | -2.73 |
| MINIMUM | -0.12 | 0.04 | -0.02 | -0.02 | -0.01 | 0.14 | -0.08 | -0.03 |
| RANGE(MAX-MIN) | 1.734 | 1.835 | -2.943 | -2.354 | -3.338 | -1.821 | -1.882 | -2.705 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= A4 - SEQUENCE III

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THIOT | ATTOT |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Adams, Patrick | 0.68 | 0.75 | 9.50 | 0.75 | 3.30 | 7.60 | 9.66 | 9.90 |
| Barrera, Tony | 0.73 | 0.75 | 9.65 | 0.80 | 3.49 | 7.25 | 9.56 | 10.00 |
| Cales, Jonathon | 0.75 | 0.75 | 9.78 | 0.84 | 4.10 | 7.09 | 9.73 | 9.95 |
| Campbell, Bryan | 0.75 | 0.77 | 9.73 | 1.05 | 3.12 | 6.57 | 9.76 | 9.78 |
| Castillo, George | 0.75 | 0.75 | 9.88 | 0.78 | 3.77 | 7.27 | 9.78 | 10.00 |
| Cumberworth, Lee | 0.75 | 0.75 | 9.78 | 0.84 | 3.23 | 7.05 | 9.85 | 9.96 |
| Greenland, Paul | 0.73 | 0.75 | 9.86 | 0.73 | 4.00 | 5.80 | 9.62 | 9.90 |
| Grundza, Richard | 0.75 | 0.64 | 9.54 | 0.66 | 3.45 | 6.90 | 9.61 | 9.85 |
| Hurst, Kevin R. | 0.75 | 0.75 | 9.50 | 0.87 | 2.98 | 6.83 | 9.80 | 9.90 |
| Kobrinetz, Joaquin J. | 0.75 | 0.75 | 9.91 | 0.75 | 3.87 | 7.00 | 9.80 | 9.94 |
| Kraemer, Vernon | 0.64 | 0.60 | 9.48 | 0.80 | 4.47 | 7.66 | 9.71 | 9.92 |
| Lonsway, Chris | 0.75 | 0.75 | 9.80 | 0.73 | 3.72 | 6.95 | 9.71 | 9.90 |
| Lopez, Frank | 0.74 | 0.75 | 9.65 | 0.83 | 4.35 | 7.33 | 9.70 | 9.90 |
| May, Marianne | 0.75 | 0.75 | 9.74 | 0.72 | 3.98 | 7.37 | 9.74 | 10.00 |
| Rodriguez, Jesus (Jesse) | 0.75 | 0.75 | 9.64 | 0.86 | 3.49 | 6.89 | 9.73 | 9.90 |
| Trevino, Bobby | 0.75 | 0.75 | 9.70 | 0.74 | 3.80 | 6.86 | 9.67 | 9.93 |
| Veiga, Victor | 0.69 | 0.75 | 9.56 | 0.77 | 3.79 | 7.56 | 9.72 | 9.80 |
| Zalewski, John | 0.75 | 0.41 | 9.80 | 0.72 | 4.16 | 6.84 | 9.79 | 10.00 |
| MAXIMUM | 0.75 | 0.77 | 9.91 | 1.05 | 4.47 | 7.66 | 9.85 | 10.00 |
| MINIMUM | 0.64 | 0.41 | 9.48 | 0.66 | 2.98 | 5.80 | 9.56 | 9.78 |
| RANGE(MAX-MIN) | 0.110 | 0.360 | 0.430 | 0.390 | 1.490 | 1.860 | 0.290 | 0.220 |
| MEAN | 0.734 | 0.718 | 9.694 | 0.791 | 3.726 | 7.046 | 9.719 | 9.918 |
| STANDARD DEVIATION | 0.031 | 0.088 | 0.137 | 0.086 | 0.419 | 0.433 | 0.075 | 0.064 |

Part ID= A4 - SEQUENCE III

A4 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THIOT | ATTOT |
|--------------------------|--------|--------|-------|-------|--------|--------|--------|--------|
| Adams, Patrick | -1.71 | 0.37 | -1.42 | -0.48 | -1.02 | 1.28 | -0.79 | -0.29 |
| Barrera, Tony | -0.12 | 0.37 | -0.32 | 0.10 | -0.56 | 0.47 | -2.13 | 1.27 |
| Cales, Jonathon | 0.51 | 0.37 | 0.62 | 0.57 | 0.89 | 0.10 | 0.15 | 0.49 |
| Campbell, Bryan | 0.51 | 0.59 | 0.26 | 3.01 | -1.45 | -1.10 | 0.55 | -2.16 |
| Castillo, George | 0.51 | 0.37 | 1.35 | -0.13 | 0.10 | 0.52 | 0.82 | 1.27 |
| Cumberworth, Lee | 0.51 | 0.37 | 0.62 | 0.57 | -1.18 | 0.01 | 1.76 | 0.65 |
| Greenland, Paul | -0.12 | 0.37 | 1.21 | -0.71 | 0.65 | -2.88 | -1.32 | -0.29 |
| Grundza, Richard | 0.51 | -0.88 | -1.13 | -1.52 | -0.66 | -0.34 | -1.46 | -1.07 |
| Hurst, Kevin R. | 0.51 | 0.37 | -1.42 | 0.92 | -1.78 | -0.50 | 1.09 | -0.29 |
| Kobrinetz, Joaquin J. | 0.51 | 0.37 | 1.57 | -0.48 | 0.34 | -0.11 | 1.09 | 0.34 |
| Kraemer, Vernon | -2.98 | -1.34 | -1.57 | 0.10 | 1.78 | 1.42 | -0.12 | 0.03 |
| Lonsway, Chris | 0.51 | 0.37 | 0.77 | -0.71 | -0.01 | -0.22 | -0.12 | -0.29 |
| Lopez, Frank | 0.19 | 0.37 | -0.32 | 0.45 | 1.49 | 0.66 | -0.25 | -0.29 |
| May, Marianne | 0.51 | 0.37 | 0.33 | -0.83 | 0.61 | 0.75 | 0.28 | 1.27 |
| Rodriguez, Jesus (Jesse) | 0.51 | 0.37 | -0.40 | 0.80 | -0.56 | -0.36 | 0.15 | -0.29 |
| Trevino, Bobby | 0.51 | 0.37 | 0.04 | -0.59 | 0.18 | -0.43 | -0.65 | 0.18 |
| Veiga, Victor | -1.40 | 0.37 | -0.98 | -0.25 | 0.15 | 1.19 | 0.01 | -1.85 |
| Zalewski, John | 0.51 | -3.49 | 0.77 | -0.83 | 1.04 | -0.47 | 0.95 | 1.27 |
| MAXIMUM | -2.98 | -3.49 | 1.57 | 3.01 | -1.78 | -2.88 | -2.13 | -2.16 |
| MINIMUM | -0.12 | 0.37 | 0.04 | 0.10 | -0.01 | 0.01 | 0.01 | 0.03 |
| RANGE(MAX-MIN) | -2.861 | -3.860 | 1.533 | 2.907 | -1.767 | -2.887 | -2.143 | -2.184 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= A5 - SQUARE CUT DIESEL

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | G4TOT | L2TOT | L3TOT | L4TOT |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|
| Adams, Patrick | 0.49 | 4.60 | 9.72 | 9.55 | 2.70 | 8.43 | 9.08 |
| Campbell, Bryan | 0.73 | 5.64 | 9.64 | 9.76 | 4.10 | 8.39 | 8.73 |
| Castillo, George | 0.68 | 5.30 | 9.97 | 9.90 | 3.75 | 8.19 | 8.90 |
| Lopez, Frank | 0.51 | 5.08 | 9.80 | 9.80 | 3.76 | 9.01 | 8.88 |
| May, Marianne | 0.47 | 4.99 | 9.78 | 9.82 | 3.47 | 9.46 | 9.58 |
| Rodríguez, Jesus (Jesse) | 0.56 | 4.26 | 9.80 | 9.70 | 3.53 | 9.10 | 8.95 |
| Swanson, Dennis | 0.75 | 4.71 | 9.72 | 9.83 | 3.02 | 8.70 | 8.88 |
| Zalewski, John | 0.32 | 4.27 | 9.80 | 9.80 | 3.21 | 8.67 | 8.38 |
| MAXIMUM | 0.75 | 5.64 | 9.97 | 9.90 | 4.10 | 9.46 | 9.58 |
| MINIMUM | 0.32 | 4.26 | 9.64 | 9.55 | 2.70 | 8.19 | 8.38 |
| RANGE(MAX-MIN) | 0.430 | 1.380 | 0.330 | 0.350 | 1.400 | 1.270 | 1.200 |
| MEAN | 0.564 | 4.856 | 9.779 | 9.770 | 3.443 | 8.744 | 8.923 |
| STANDARD DEVIATION | 0.148 | 0.488 | 0.096 | 0.106 | 0.450 | 0.422 | 0.337 |

Part ID= A5 - SQUARE CUT DIESEL

A5 Y1 Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | G4TOT | L2TOT | L3TOT | L4TOT |
|--------------------------|--------|-------|-------|--------|--------|-------|-------|
| Adams, Patrick | -0.50 | -0.53 | -0.61 | -2.08 | -1.65 | -0.74 | 0.47 |
| Campbell, Bryan | 1.13 | 1.61 | -1.45 | -0.09 | 1.46 | -0.84 | -0.57 |
| Castillo, George | 0.79 | 0.91 | 2.00 | 1.23 | 0.68 | -1.31 | -0.07 |
| Lopez, Frank | -0.36 | 0.46 | 0.22 | 0.28 | 0.70 | 0.63 | -0.13 |
| May, Marianne | -0.64 | 0.27 | 0.01 | 0.47 | 0.06 | 1.70 | 1.95 |
| Rodríguez, Jesus (Jesse) | -0.03 | -1.22 | 0.22 | -0.66 | 0.19 | 0.84 | 0.08 |
| Swanson, Dennis | 1.26 | -0.30 | -0.61 | 0.57 | -0.94 | -0.10 | -0.13 |
| Zalewski, John | -1.65 | -1.20 | 0.22 | 0.28 | -0.52 | -0.17 | -1.61 |
| MAXIMUM | -1.65 | 1.61 | 2.00 | -2.08 | -1.65 | 1.70 | 1.95 |
| MINIMUM | -0.03 | 0.27 | 0.01 | -0.09 | 0.06 | -0.10 | -0.07 |
| RANGE(MAX-MIN) | -1.627 | 1.333 | 1.986 | -1.987 | -1.710 | 1.800 | 2.020 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= A6 - SEQUENCE III

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Adams, Patrick | 1.49 | 0.87 | 8.22 | 1.20 | 1.20 | 2.62 | 9.39 | 9.90 |
| Barrera, Tony | 2.01 | 0.97 | 7.85 | 1.17 | 1.60 | 2.96 | 9.21 | 9.82 |
| Campbell, Bryan | 3.53 | 0.94 | 7.63 | 1.47 | 1.75 | 3.60 | 8.94 | 9.84 |
| Castillo, George | 2.06 | 0.88 | 8.33 | 1.10 | 2.01 | 3.05 | 9.24 | 9.95 |
| Greenland, Paul | 2.66 | 0.87 | 8.20 | 1.32 | 2.04 | 2.70 | 9.45 | 9.85 |
| Hurst, Kevin R. | 2.01 | 0.88 | 8.01 | 1.47 | 1.61 | 2.53 | 9.68 | 9.90 |
| Kraemer, Vernon | 3.38 | 0.73 | 7.88 | 1.50 | 2.37 | 3.95 | 9.15 | 9.85 |
| Lopez, Frank | 2.41 | 0.98 | 8.52 | 1.61 | 1.90 | 2.25 | 9.42 | 9.90 |
| May, Marianne | 1.55 | 0.85 | 8.34 | 1.23 | 1.56 | 2.38 | 9.47 | 9.99 |
| Rodriguez, Jesus (Jesse) | 2.38 | 0.89 | 8.28 | 1.31 | 2.18 | 2.74 | 9.33 | 9.90 |
| Swanson, Dennis | 2.53 | 0.99 | 7.33 | 1.68 | 2.15 | 3.50 | 9.13 | 9.98 |
| Trevino, Bobby | 2.52 | 0.88 | 8.27 | 1.04 | 1.64 | 3.25 | 9.52 | 9.91 |
| Veiga, Victor | 1.94 | 0.81 | 8.91 | 1.16 | 1.59 | 2.73 | 9.67 | 9.80 |
| Zalewski, John | 2.46 | 0.95 | 8.15 | 1.69 | 1.92 | 3.42 | 9.47 | 9.90 |
| MAXIMUM | 3.53 | 0.99 | 8.91 | 1.69 | 2.37 | 3.95 | 9.68 | 9.99 |
| MINIMUM | 1.49 | 0.73 | 7.33 | 1.04 | 1.20 | 2.25 | 8.94 | 9.80 |
| RANGE(MAX-MIN) | 2.040 | 0.260 | 1.580 | 0.650 | 1.170 | 1.700 | 0.740 | 0.190 |
| MEAN | 2.352 | 0.892 | 8.137 | 1.354 | 1.823 | 2.977 | 9.362 | 9.892 |
| STANDARD DEVIATION | 0.588 | 0.071 | 0.387 | 0.217 | 0.313 | 0.503 | 0.210 | 0.056 |

Part ID= A6 - SEQUENCE III

A6 Y1 Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|--------------------------|-------|--------|--------|-------|--------|-------|--------|-------|
| Adams, Patrick | -1.47 | -0.31 | 0.21 | -0.71 | -1.99 | -0.71 | 0.13 | 0.14 |
| Barrera, Tony | -0.58 | 1.10 | -0.74 | -0.85 | -0.71 | -0.03 | -0.73 | -1.28 |
| Campbell, Bryan | 2.00 | 0.68 | -1.31 | 0.54 | -0.23 | 1.24 | -2.01 | -0.93 |
| Castillo, George | -0.50 | -0.17 | 0.50 | -1.17 | 0.60 | 0.14 | -0.58 | 1.03 |
| Greenland, Paul | 0.52 | -0.31 | 0.16 | -0.16 | 0.69 | -0.55 | 0.42 | -0.75 |
| Hurst, Kevin R. | -0.58 | -0.17 | -0.33 | 0.54 | -0.68 | -0.89 | 1.52 | 0.14 |
| Kraemer, Vernon | 1.75 | -2.29 | -0.66 | 0.68 | 1.75 | 1.93 | -1.01 | -0.75 |
| Lopez, Frank | 0.10 | 1.24 | 0.99 | 1.18 | 0.25 | -1.45 | 0.28 | 0.14 |
| May, Marianne | -1.36 | -0.59 | 0.52 | -0.57 | -0.84 | -1.19 | 0.51 | 1.74 |
| Rodriguez, Jesus (Jesse) | 0.05 | -0.03 | 0.37 | -0.20 | 1.14 | -0.47 | -0.15 | 0.14 |
| Swanson, Dennis | 0.30 | 1.38 | -2.09 | 1.51 | 1.04 | 1.04 | -1.11 | 1.56 |
| Trevino, Bobby | 0.29 | -0.17 | 0.34 | -1.45 | -0.58 | 0.54 | 0.75 | 0.32 |
| Veiga, Victor | -0.70 | -1.16 | 2.00 | -0.89 | -0.74 | -0.49 | 1.47 | -1.64 |
| Zalewski, John | 0.18 | 0.82 | 0.03 | 1.55 | 0.31 | 0.88 | 0.51 | 0.14 |
| MAXIMUM | 2.00 | -2.29 | -2.09 | 1.55 | -1.99 | 1.93 | -2.01 | 1.74 |
| MINIMUM | 0.05 | -0.03 | 0.03 | -0.16 | -0.23 | -0.03 | 0.13 | 0.14 |
| RANGE(MAX-MIN) | 1.957 | -2.259 | -2.120 | 1.709 | -1.755 | 1.968 | -2.145 | 1.598 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= A7 - SQUARE CUT DIESEL

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | G4TOT | L2TOT | L3TOT | L4TOT |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|
| Adams, Patrick | 0.44 | 9.16 | 9.50 | 9.80 | 2.96 | 9.80 | 9.66 |
| Campbell, Bryan | 1.00 | 9.27 | 9.42 | 9.60 | 2.66 | 9.43 | 9.57 |
| Castillo, George | 0.71 | 9.65 | 9.69 | 9.80 | 4.10 | 9.84 | 9.63 |
| Lopez, Frank | 0.62 | 9.80 | 9.80 | 9.80 | 3.69 | 9.80 | 9.75 |
| May, Marianne | 0.46 | 9.66 | 9.98 | 10.00 | 4.35 | 9.88 | 9.78 |
| Rodríguez, Jesus (Jesse) | 0.55 | 9.80 | 9.80 | 9.90 | 3.62 | 9.80 | 9.70 |
| Zalewski, John | 0.43 | 9.70 | 9.60 | 9.90 | 3.95 | 9.80 | 9.71 |
| MAXIMUM | 1.00 | 9.80 | 9.98 | 10.00 | 4.35 | 9.88 | 9.78 |
| MINIMUM | 0.43 | 9.16 | 9.42 | 9.60 | 2.66 | 9.43 | 9.57 |
| RANGE(MAX-MIN) | 0.570 | 0.640 | 0.560 | 0.400 | 1.690 | 0.450 | 0.210 |
| MEAN | 0.601 | 9.577 | 9.684 | 9.829 | 3.619 | 9.764 | 9.686 |
| STANDARD DEVIATION | 0.204 | 0.257 | 0.194 | 0.125 | 0.610 | 0.151 | 0.072 |

Part ID= A7 - SQUARE CUT DIESEL

A7 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | G4TOT | L2TOT | L3TOT | L4TOT |
|--------------------------|-------|--------|-------|--------|--------|--------|--------|
| Adams, Patrick | -0.79 | -1.63 | -0.95 | -0.23 | -1.08 | 0.24 | -0.36 |
| Campbell, Bryan | 1.96 | -1.20 | -1.36 | -1.82 | -1.57 | -2.22 | -1.61 |
| Castillo, George | 0.53 | 0.28 | 0.03 | -0.23 | 0.79 | 0.50 | -0.78 |
| Lopez, Frank | 0.09 | 0.87 | 0.60 | -0.23 | 0.12 | 0.24 | 0.89 |
| May, Marianne | -0.69 | 0.32 | 1.53 | 1.37 | 1.20 | 0.77 | 1.31 |
| Rodríguez, Jesus (Jesse) | -0.25 | 0.87 | 0.60 | 0.57 | 0.00 | 0.24 | 0.20 |
| Zalewski, John | -0.84 | 0.48 | -0.44 | 0.57 | 0.54 | 0.24 | 0.34 |
| MAXIMUM | 1.96 | -1.63 | 1.53 | -1.82 | -1.57 | -2.22 | -1.61 |
| MINIMUM | 0.09 | 0.28 | 0.03 | -0.23 | 0.00 | 0.24 | 0.20 |
| RANGE(MAX-MIN) | 1.865 | -1.910 | 1.497 | -1.596 | -1.573 | -2.458 | -1.809 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= A8 - FIELD PISTON

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | FRTOT | RRTOT |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|
| Adams, Patrick | 0.68 | 0.65 | 2.13 | 1.31 | 1.99 | 6.83 | 6.98 |
| Castillo, George | 0.66 | 0.68 | 2.24 | 1.51 | 2.28 | 5.69 | 6.21 |
| Hurst, Kevin R. | 0.65 | 0.69 | 1.86 | 1.98 | 1.97 | 5.60 | 6.41 |
| Lopez, Frank | 0.68 | 0.68 | 1.95 | 1.69 | 1.84 | 7.08 | 7.78 |
| Rodriguez, Jesus (Jesse) | 0.68 | 0.71 | 1.69 | 1.43 | 1.67 | 5.82 | 6.35 |
| Zalewski, John | 0.67 | 0.74 | 2.31 | 1.68 | 2.02 | 6.15 | 6.50 |
| MAXIMUM | 0.68 | 0.74 | 2.31 | 1.98 | 2.28 | 7.08 | 7.78 |
| MINIMUM | 0.65 | 0.65 | 1.69 | 1.31 | 1.67 | 5.60 | 6.21 |
| RANGE(MAX-MIN) | 0.030 | 0.090 | 0.620 | 0.670 | 0.610 | 1.480 | 1.570 |
| MEAN | 0.670 | 0.692 | 2.030 | 1.600 | 1.962 | 6.195 | 6.705 |
| STANDARD DEVIATION | 0.013 | 0.031 | 0.238 | 0.237 | 0.203 | 0.623 | 0.588 |

Part ID= A8 - FIELD PISTON

A8 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | FRTOT | RRTOT |
|--------------------------|--------|-------|--------|-------|-------|-------|-------|
| Adams, Patrick | 0.79 | -1.36 | 0.42 | -1.23 | 0.14 | 1.02 | 0.47 |
| Castillo, George | -0.79 | -0.38 | 0.88 | -0.38 | 1.57 | -0.81 | -0.84 |
| Hurst, Kevin R. | -1.58 | -0.05 | -0.71 | 1.61 | 0.04 | -0.96 | -0.50 |
| Lopez, Frank | 0.79 | -0.38 | -0.34 | 0.38 | -0.60 | 1.42 | 1.83 |
| Rodriguez, Jesus (Jesse) | 0.79 | 0.60 | -1.43 | -0.72 | -1.44 | -0.60 | -0.60 |
| Zalewski, John | 0.00 | 1.58 | 1.18 | 0.34 | 0.29 | -0.07 | -0.35 |
| MAXIMUM | -1.58 | 1.58 | -1.43 | 1.61 | 1.57 | 1.42 | 1.83 |
| MINIMUM | 0.00 | -0.05 | -0.34 | 0.34 | 0.04 | -0.07 | -0.35 |
| RANGE(MAX-MIN) | -1.581 | 1.634 | -1.092 | 1.268 | 1.529 | 1.494 | 2.175 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= B1 - SEQUENCE III

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Aguirre, Nancy P | 3.04 | 0.74 | 9.61 | 1.35 | 2.48 | 8.81 | 9.64 | 9.90 |
| Avis, Steven | 4.32 | 0.75 | 9.98 | 0.99 | 2.00 | 9.13 | 9.95 | 9.95 |
| Barrera, Tony | 2.47 | 0.75 | 9.72 | 1.18 | 2.27 | 8.20 | 9.86 | 9.91 |
| Cales, Jonathon | 4.19 | 0.74 | 9.85 | 1.01 | 2.73 | 8.68 | 9.90 | 9.95 |
| Cumberworth, Lee | 2.82 | 0.75 | 9.98 | 1.73 | 2.11 | 8.84 | 9.96 | 10.00 |
| Greenland, Paul | 2.33 | 0.75 | 8.85 | 1.82 | 2.73 | 1.95 | 9.60 | 9.90 |
| Grundza, Richard | 2.88 | 0.75 | 9.90 | 1.83 | 3.24 | 7.64 | 9.85 | 9.90 |
| Hills, Barry | 4.00 | 0.75 | 9.90 | 1.46 | 2.19 | 9.20 | 9.90 | 9.90 |
| Hurst, Kevin R. | 3.87 | 0.74 | 9.85 | 1.43 | 2.20 | 9.18 | 9.90 | 9.90 |
| Kraemer, Vernon | 1.65 | 0.74 | 9.77 | 1.07 | 2.07 | 8.08 | 9.82 | 9.87 |
| Lowry, Shannon | 3.78 | 0.75 | 9.70 | 1.83 | 2.87 | 8.32 | 9.93 | 9.98 |
| May, Marianne | 1.29 | 0.75 | 9.96 | 1.27 | 2.56 | 9.16 | 9.96 | 9.98 |
| Sanchez, Arthur | 5.32 | 0.75 | 9.70 | 0.91 | 2.64 | 9.32 | 9.88 | 9.89 |
| Seiz, Ray | 2.37 | 0.75 | 9.80 | 1.27 | 2.77 | 8.77 | 9.80 | 9.90 |
| Terrado, Ken | 4.63 | 0.74 | 9.76 | 0.79 | 2.79 | 9.22 | 9.89 | 9.90 |
| Trevino, Bobby | 3.61 | 0.75 | 9.80 | 0.99 | 2.58 | 7.78 | 9.86 | 9.92 |
| Veiga, Victor | 4.53 | 0.73 | 9.80 | 1.45 | 2.85 | 7.41 | 9.80 | 9.80 |
| MAXIMUM | 5.32 | 0.75 | 9.98 | 1.83 | 3.24 | 9.32 | 9.96 | 10.00 |
| MINIMUM | 1.29 | 0.73 | 8.85 | 0.79 | 2.00 | 1.95 | 9.60 | 9.80 |
| RANGE(MAX-MIN) | 4.030 | 0.020 | 1.130 | 1.040 | 1.240 | 7.370 | 0.360 | 0.200 |
| MEAN | 3.359 | 0.746 | 9.761 | 1.316 | 2.534 | 8.217 | 9.853 | 9.915 |
| STANDARD DEVIATION | 1.118 | 0.006 | 0.257 | 0.339 | 0.345 | 1.724 | 0.101 | 0.047 |

Part ID= B1 - SEQUENCE III

B1 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|--------------------|--------|--------|--------|--------|-------|--------|--------|--------|
| Aguirre, Nancy P | -0.29 | -0.95 | -0.59 | 0.10 | -0.16 | 0.34 | -2.11 | -0.31 |
| Avis, Steven | 0.86 | 0.67 | 0.85 | -0.96 | -1.55 | 0.53 | 0.96 | 0.75 |
| Barrera, Tony | -0.79 | 0.67 | -0.16 | -0.40 | -0.77 | -0.01 | 0.07 | -0.10 |
| Cales, Jonathon | 0.74 | -0.95 | 0.35 | -0.90 | 0.57 | 0.27 | 0.47 | 0.75 |
| Cumberworth, Lee | -0.48 | 0.67 | 0.85 | 1.22 | -1.23 | 0.36 | 1.06 | 1.81 |
| Greenland, Paul | -0.92 | 0.67 | -3.54 | 1.49 | 0.57 | -3.63 | -2.50 | -0.31 |
| Grundza, Richard | -0.43 | 0.67 | 0.54 | 1.52 | 2.05 | -0.33 | -0.03 | -0.31 |
| Hills, Barry | 0.57 | 0.67 | 0.54 | 0.42 | -1.00 | 0.57 | 0.47 | -0.31 |
| Hurst, Kevin R. | 0.46 | -0.95 | 0.35 | 0.34 | -0.97 | 0.56 | 0.47 | -0.31 |
| Kraemer, Vernon | -1.53 | -0.95 | 0.04 | -0.73 | -1.34 | -0.08 | -0.33 | -0.95 |
| Lowry, Shannon | 0.38 | 0.67 | -0.24 | 1.52 | 0.97 | 0.06 | 0.76 | 1.38 |
| May, Marianne | -1.85 | 0.67 | 0.78 | -0.14 | 0.08 | 0.55 | 1.06 | 1.38 |
| Sanchez, Arthur | 1.75 | 0.67 | -0.24 | -1.20 | 0.31 | 0.64 | 0.27 | -0.52 |
| Seiz, Ray | -0.88 | 0.67 | 0.15 | -0.14 | 0.68 | 0.32 | -0.52 | -0.31 |
| Terrado, Ken | 1.14 | -0.95 | 0.00 | -1.55 | 0.74 | 0.58 | 0.37 | -0.31 |
| Trevino, Bobby | 0.22 | 0.67 | 0.15 | -0.96 | 0.13 | -0.25 | 0.07 | 0.11 |
| Veiga, Victor | 1.05 | -2.57 | 0.15 | 0.39 | 0.92 | -0.47 | -0.52 | -2.43 |
| MAXIMUM | -1.85 | -2.57 | -3.54 | -1.55 | 2.05 | -3.63 | -2.50 | -2.43 |
| MINIMUM | 0.22 | 0.67 | 0.00 | 0.10 | 0.08 | -0.01 | -0.03 | -0.10 |
| RANGE(MAX-MIN) | -2.075 | -3.234 | -3.541 | -1.652 | 1.970 | -3.624 | -2.476 | -2.331 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

Screened Data

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= B1 - SEQUENCE III

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Aguirre, Nancy P | 3.04 | 0.74 | 9.61 | 1.35 | 2.48 | 8.81 | 9.64 | 9.90 |
| Avis, Steven | 4.32 | 0.75 | 9.98 | 0.99 | 2.00 | 9.13 | 9.95 | 9.95 |
| Barrera, Tony | 2.47 | 0.75 | 9.72 | 1.18 | 2.27 | 8.20 | 9.86 | 9.91 |
| Cales, Jonathon | 4.19 | 0.74 | 9.85 | 1.01 | 2.73 | 8.68 | 9.90 | 9.95 |
| Cumberworth, Lee | 2.82 | 0.75 | 9.98 | 1.73 | 2.11 | 8.84 | 9.96 | 10.00 |
| Grundza, Richard | 2.88 | 0.75 | 9.90 | 1.83 | 3.24 | 7.64 | 9.85 | 9.90 |
| Hills, Barry | 4.00 | 0.75 | 9.90 | 1.46 | 2.19 | 9.20 | 9.90 | 9.90 |
| Hurst, Kevin R. | 3.87 | 0.74 | 9.85 | 1.43 | 2.20 | 9.18 | 9.90 | 9.90 |
| Kraemer, Vernon | 1.65 | 0.74 | 9.77 | 1.07 | 2.07 | 8.08 | 9.82 | 9.87 |
| Lowry, Shannon | 3.78 | 0.75 | 9.70 | 1.83 | 2.87 | 8.32 | 9.93 | 9.98 |
| May, Marianne | 1.29 | 0.75 | 9.96 | 1.27 | 2.56 | 9.16 | 9.96 | 9.98 |
| Sanchez, Arthur | 5.32 | 0.75 | 9.70 | 0.91 | 2.64 | 9.32 | 9.88 | 9.89 |
| Seiz, Ray | 2.37 | 0.75 | 9.80 | 1.27 | 2.77 | 8.77 | 9.80 | 9.90 |
| Terrado, Ken | 4.63 | 0.74 | 9.76 | 0.79 | 2.79 | 9.22 | 9.89 | 9.90 |
| Trevino, Bobby | 3.61 | 0.75 | 9.80 | 0.99 | 2.58 | 7.78 | 9.86 | 9.92 |
| Veiga, Victor | 4.53 | 0.73 | 9.80 | 1.45 | 2.85 | 7.41 | 9.80 | 9.80 |
| MAXIMUM | 5.32 | 0.75 | 9.98 | 1.83 | 3.24 | 9.32 | 9.96 | 10.00 |
| MINIMUM | 1.29 | 0.73 | 9.61 | 0.79 | 2.00 | 7.41 | 9.64 | 9.80 |
| RANGE(MAX-MIN) | 4.030 | 0.020 | 0.370 | 1.040 | 1.240 | 1.910 | 0.320 | 0.200 |
| MEAN | 3.423 | 0.746 | 9.818 | 1.285 | 2.522 | 8.609 | 9.869 | 9.916 |
| STANDARD DEVIATION | 1.122 | 0.006 | 0.108 | 0.323 | 0.353 | 0.624 | 0.080 | 0.049 |

Part ID= B1 - SEQUENCE III

B1 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|--------------------|--------|--------|--------|-------|-------|--------|--------|--------|
| Aguirre, Nancy P | -0.34 | -0.89 | -1.92 | 0.20 | -0.12 | 0.32 | -2.87 | -0.32 |
| Avis, Steven | 0.80 | 0.70 | 1.50 | -0.91 | -1.48 | 0.83 | 1.02 | 0.71 |
| Barrera, Tony | -0.85 | 0.70 | -0.90 | -0.32 | -0.71 | -0.65 | -0.11 | -0.12 |
| Cales, Jonathon | 0.68 | -0.89 | 0.30 | -0.85 | 0.59 | 0.11 | 0.39 | 0.71 |
| Cumberworth, Lee | -0.54 | 0.70 | 1.50 | 1.38 | -1.17 | 0.37 | 1.15 | 1.74 |
| Grundza, Richard | -0.48 | 0.70 | 0.76 | 1.69 | 2.04 | -1.55 | -0.24 | -0.32 |
| Hills, Barry | 0.51 | 0.70 | 0.76 | 0.54 | -0.94 | 0.95 | 0.39 | -0.32 |
| Hurst, Kevin R. | 0.40 | -0.89 | 0.30 | 0.45 | -0.91 | 0.91 | 0.39 | -0.32 |
| Kraemer, Vernon | -1.58 | -0.89 | -0.44 | -0.66 | -1.28 | -0.85 | -0.61 | -0.94 |
| Lowry, Shannon | 0.32 | 0.70 | -1.09 | 1.69 | 0.99 | -0.46 | 0.77 | 1.33 |
| May, Marianne | -1.90 | 0.70 | 1.32 | -0.05 | 0.11 | 0.88 | 1.15 | 1.33 |
| Sanchez, Arthur | 1.69 | 0.70 | -1.09 | -1.16 | 0.34 | 1.14 | 0.14 | -0.53 |
| Seiz, Ray | -0.94 | 0.70 | -0.16 | -0.05 | 0.70 | 0.26 | -0.86 | -0.32 |
| Terrado, Ken | 1.08 | -0.89 | -0.53 | -1.53 | 0.76 | 0.98 | 0.27 | -0.32 |
| Trevino, Bobby | 0.17 | 0.70 | -0.16 | -0.91 | 0.16 | -1.33 | -0.11 | 0.09 |
| Veiga, Victor | 0.99 | -2.48 | -0.16 | 0.51 | 0.93 | -1.92 | -0.86 | -2.38 |
| MAXIMUM | -1.90 | -2.48 | -1.92 | 1.69 | 2.04 | -1.92 | -2.87 | -2.38 |
| MINIMUM | 0.17 | 0.70 | -0.16 | -0.05 | 0.11 | 0.11 | -0.11 | 0.09 |
| RANGE(MAX-MIN) | -2.068 | -3.179 | -1.757 | 1.732 | 1.928 | -2.034 | -2.762 | -2.470 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= B2 - SEQUENCE III

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THIOT | ATTOT |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Aguirre, Nancy P | 1.59 | 0.85 | 9.21 | 1.06 | 3.24 | 8.62 | 9.36 | 9.88 |
| Avis, Steven | 1.36 | 0.84 | 9.13 | 0.97 | 2.65 | 9.11 | 9.40 | 9.95 |
| Barrera, Tony | 1.49 | 0.84 | 8.83 | 0.89 | 2.82 | 8.25 | 9.34 | 9.92 |
| Cales, Jonathon | 1.40 | 0.85 | 8.53 | 0.94 | 2.69 | 8.13 | 9.59 | 9.95 |
| Cumberworth, Lee | 1.49 | 0.80 | 9.44 | 0.95 | 2.13 | 8.53 | 9.64 | 10.00 |
| Grundza, Richard | 1.86 | 0.95 | 8.89 | 1.46 | 2.25 | 8.12 | 9.46 | 9.90 |
| Hills, Barry | 1.34 | 0.81 | 9.57 | 1.07 | 2.46 | 8.52 | 9.66 | 9.90 |
| Hurst, Kevin R. | 1.39 | 0.79 | 9.37 | 1.13 | 2.03 | 8.90 | 9.76 | 9.90 |
| Kraemer, Vernon | 1.54 | 0.82 | 9.13 | 0.88 | 3.14 | 8.65 | 9.70 | 9.90 |
| Lowry, Shannon | 1.76 | 0.93 | 8.94 | 1.21 | 3.09 | 8.32 | 9.55 | 9.96 |
| May, Marianne | 0.92 | 0.82 | 9.59 | 0.99 | 3.14 | 8.63 | 9.63 | 9.98 |
| Sanchez, Arthur | 1.81 | 0.89 | 9.62 | 0.93 | 2.08 | 8.53 | 9.62 | 9.90 |
| Seiz, Ray | 1.26 | 0.81 | 9.11 | 1.71 | 3.08 | 8.72 | 9.31 | 9.85 |
| Trevino, Bobby | 1.64 | 0.90 | 9.27 | 0.92 | 3.03 | 7.80 | 9.58 | 9.88 |
| Veiga, Victor | 1.23 | 0.98 | 9.45 | 1.09 | 3.26 | 8.66 | 9.67 | 9.80 |
| MAXIMUM | 1.86 | 0.98 | 9.62 | 1.71 | 3.26 | 9.11 | 9.76 | 10.00 |
| MINIMUM | 0.92 | 0.79 | 8.53 | 0.88 | 2.03 | 7.80 | 9.31 | 9.80 |
| RANGE(MAX-MIN) | 0.940 | 0.190 | 1.090 | 0.830 | 1.230 | 1.310 | 0.450 | 0.200 |
| MEAN | 1.472 | 0.859 | 9.205 | 1.080 | 2.739 | 8.499 | 9.551 | 9.911 |
| STANDARD DEVIATION | 0.246 | 0.058 | 0.315 | 0.230 | 0.448 | 0.330 | 0.142 | 0.051 |

Part ID= B2 - SEQUENCE III

B2 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THIOT | ATTOT |
|--------------------|--------|-------|--------|-------|--------|--------|--------|--------|
| Aguirre, Nancy P | 0.48 | -0.15 | 0.01 | -0.09 | 1.12 | 0.37 | -1.34 | -0.61 |
| Avis, Steven | -0.46 | -0.32 | -0.24 | -0.48 | -0.20 | 1.85 | -1.06 | 0.75 |
| Barrera, Tony | 0.07 | -0.32 | -1.19 | -0.83 | 0.18 | -0.75 | -1.49 | 0.17 |
| Cales, Jonathon | -0.29 | -0.15 | -2.15 | -0.61 | -0.11 | -1.12 | 0.27 | 0.75 |
| Cumberworth, Lee | 0.07 | -1.01 | 0.75 | -0.56 | -1.36 | 0.09 | 0.62 | 1.73 |
| Grundza, Richard | 1.58 | 1.57 | -1.00 | 1.65 | -1.09 | -1.15 | -0.64 | -0.22 |
| Hills, Barry | -0.54 | -0.83 | 1.16 | -0.04 | -0.62 | 0.06 | 0.76 | -0.22 |
| Hurst, Kevin R. | -0.33 | -1.18 | 0.52 | 0.22 | -1.58 | 1.21 | 1.47 | -0.22 |
| Kraemer, Vernon | 0.28 | -0.66 | -0.24 | -0.87 | 0.89 | 0.46 | 1.05 | -0.22 |
| Lowry, Shannon | 1.17 | 1.22 | -0.84 | 0.56 | 0.78 | -0.54 | -0.01 | 0.95 |
| May, Marianne | -2.25 | -0.66 | 1.22 | -0.39 | 0.89 | 0.40 | 0.55 | 1.34 |
| Sanchez, Arthur | 1.38 | 0.54 | 1.32 | -0.65 | -1.47 | 0.09 | 0.48 | -0.22 |
| Seiz, Ray | -0.86 | -0.83 | -0.30 | 2.74 | 0.76 | 0.67 | -1.70 | -1.20 |
| Trevino, Bobby | 0.68 | 0.71 | 0.21 | -0.69 | 0.65 | -2.12 | 0.20 | -0.61 |
| Veiga, Victor | -0.98 | 2.08 | 0.78 | 0.04 | 1.16 | 0.49 | 0.83 | -2.17 |
| MAXIMUM | -2.25 | 2.08 | -2.15 | 2.74 | -1.58 | -2.12 | -1.70 | -2.17 |
| MINIMUM | 0.07 | -0.15 | 0.01 | -0.04 | -0.11 | 0.06 | -0.01 | 0.17 |
| RANGE(MAX-MIN) | -2.320 | 2.230 | -2.161 | 2.780 | -1.473 | -2.179 | -1.687 | -2.341 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= B3 - SEQUENCE III

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THIOT | ATTOT |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Aguirre, Nancy P | 5.47 | 0.75 | 8.35 | 2.15 | 2.38 | 2.46 | 9.29 | 9.88 |
| Avis, Steven | 6.75 | 0.75 | 8.14 | 1.20 | 2.06 | 1.96 | 9.77 | 9.95 |
| Cales, Jonathon | 6.91 | 0.75 | 8.66 | 1.32 | 3.08 | 3.18 | 9.56 | 9.90 |
| Cumberworth, Lee | 7.00 | 0.75 | 8.57 | 1.45 | 2.36 | 1.75 | 9.71 | 9.96 |
| Hills, Barry | 4.87 | 0.75 | 8.75 | 1.65 | 2.46 | 1.64 | 9.67 | 9.90 |
| Hurst, Kevin R. | 6.74 | 0.74 | 8.57 | 1.83 | 2.19 | 2.20 | 9.77 | 9.90 |
| Kraemer, Vernon | 5.70 | 0.74 | 8.42 | 3.80 | 4.81 | 3.28 | 9.30 | 9.79 |
| Lowry, Shannon | 5.80 | 0.77 | 8.63 | 2.57 | 3.21 | 3.15 | 9.65 | 9.95 |
| May, Marianne | 2.64 | 0.75 | 8.71 | 1.59 | 2.92 | 1.65 | 9.63 | 9.98 |
| Sanchez, Arthur | 7.44 | 0.75 | 8.87 | 1.14 | 2.48 | 1.97 | 9.63 | 9.89 |
| Seiz, Ray | 7.69 | 0.75 | 8.65 | 2.45 | 2.92 | 2.22 | 9.67 | 9.85 |
| Veiga, Victor | 6.00 | 0.74 | 8.72 | 1.51 | 2.33 | 2.36 | 9.67 | 9.80 |
| MAXIMUM | 7.69 | 0.77 | 8.87 | 3.80 | 4.81 | 3.28 | 9.77 | 9.98 |
| MINIMUM | 2.64 | 0.74 | 8.14 | 1.14 | 2.06 | 1.64 | 9.29 | 9.79 |
| RANGE(MAX-MIN) | 5.050 | 0.030 | 0.730 | 2.660 | 2.750 | 1.640 | 0.480 | 0.190 |
| MEAN | 6.084 | 0.749 | 8.587 | 1.888 | 2.767 | 2.318 | 9.610 | 9.896 |
| STANDARD DEVIATION | 1.374 | 0.008 | 0.199 | 0.759 | 0.740 | 0.594 | 0.158 | 0.060 |

Part ID= B3 - SEQUENCE III

B3 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THIOT | ATTOT |
|--------------------|--------|-------|--------|-------|-------|-------|--------|--------|
| Aguirre, Nancy P | -0.45 | 0.11 | -1.19 | 0.34 | -0.52 | 0.24 | -2.02 | -0.26 |
| Avis, Steven | 0.48 | 0.11 | -2.25 | -0.91 | -0.95 | -0.60 | 1.01 | 0.90 |
| Cales, Jonathon | 0.60 | 0.11 | 0.37 | -0.75 | 0.42 | 1.45 | -0.32 | 0.07 |
| Cumberworth, Lee | 0.67 | 0.11 | -0.08 | -0.58 | -0.55 | -0.96 | 0.63 | 1.07 |
| Hills, Barry | -0.88 | 0.11 | 0.82 | -0.31 | -0.41 | -1.14 | 0.38 | 0.07 |
| Hurst, Kevin R. | 0.48 | -1.16 | -0.08 | -0.08 | -0.78 | -0.20 | 1.01 | 0.07 |
| Kraemer, Vernon | -0.28 | -1.16 | -0.84 | 2.52 | 2.76 | 1.62 | -1.96 | -1.76 |
| Lowry, Shannon | -0.21 | 2.63 | 0.22 | 0.90 | 0.60 | 1.40 | 0.25 | 0.90 |
| May, Marianne | -2.51 | 0.11 | 0.62 | -0.39 | 0.21 | -1.12 | 0.13 | 1.40 |
| Sanchez, Arthur | 0.99 | 0.11 | 1.42 | -0.99 | -0.39 | -0.59 | 0.13 | -0.10 |
| Seiz, Ray | 1.17 | 0.11 | 0.32 | 0.74 | 0.21 | -0.17 | 0.38 | -0.76 |
| Veiga, Victor | -0.06 | -1.16 | 0.67 | -0.50 | -0.59 | 0.07 | 0.38 | -1.59 |
| MAXIMUM | -2.51 | 2.63 | -2.25 | 2.52 | 2.76 | 1.62 | -2.02 | -1.76 |
| MINIMUM | -0.06 | 0.11 | -0.08 | -0.08 | 0.21 | 0.07 | 0.13 | 0.07 |
| RANGE(MAX-MIN) | -2.446 | 2.522 | -2.162 | 2.594 | 2.553 | 1.548 | -2.149 | -1.827 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= B4 - SEQUENCE III

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Aguirre, Nancy P | 2.17 | 0.74 | 9.28 | 1.19 | 4.48 | 2.92 | 9.26 | 9.73 |
| Avis, Steven | 2.51 | 0.81 | 9.86 | 0.83 | 3.93 | 1.95 | 9.77 | 9.90 |
| Barrera, Tony | 2.29 | 0.75 | 9.14 | 1.09 | 4.36 | 2.93 | 9.73 | 9.88 |
| Cales, Jonathon | 2.88 | 0.81 | 9.85 | 1.05 | 4.92 | 3.43 | 9.31 | 9.90 |
| Cumberworth, Lee | 2.27 | 0.75 | 9.96 | 1.15 | 3.86 | 1.90 | 9.74 | 9.93 |
| Grundza, Richard | 2.45 | 0.90 | 9.81 | 1.23 | 4.68 | 3.15 | 9.43 | 9.81 |
| Hills, Barry | 2.01 | 0.80 | 9.90 | 1.01 | 3.90 | 2.12 | 9.77 | 9.88 |
| Hurst, Kevin R. | 2.22 | 0.75 | 9.85 | 1.47 | 4.03 | 2.35 | 9.80 | 9.90 |
| Kraemer, Vernon | 3.54 | 0.93 | 9.74 | 1.57 | 5.46 | 4.46 | 9.39 | 9.86 |
| Lowry, Shannon | 2.55 | 0.96 | 9.69 | 1.14 | 4.39 | 3.04 | 9.55 | 9.88 |
| Sanchez, Arthur | 3.05 | 0.90 | 9.90 | 0.90 | 4.56 | 2.38 | 9.67 | 9.69 |
| Seiz, Ray | 2.51 | 0.82 | 9.72 | 1.54 | 4.99 | 2.52 | 9.77 | 9.85 |
| Veiga, Victor | 2.19 | 0.75 | 9.80 | 1.24 | 4.17 | 2.58 | 9.58 | 9.76 |
| MAXIMUM | 3.54 | 0.96 | 9.96 | 1.57 | 5.46 | 4.46 | 9.80 | 9.93 |
| MINIMUM | 2.01 | 0.74 | 9.14 | 0.83 | 3.86 | 1.90 | 9.26 | 9.69 |
| RANGE(MAX-MIN) | 1.530 | 0.220 | 0.820 | 0.740 | 1.600 | 2.560 | 0.540 | 0.240 |
| MEAN | 2.511 | 0.821 | 9.731 | 1.185 | 4.441 | 2.748 | 9.598 | 9.844 |
| STANDARD DEVIATION | 0.424 | 0.077 | 0.245 | 0.229 | 0.482 | 0.697 | 0.192 | 0.074 |

Part ID= B4 - SEQUENCE III

B4 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|--------------------|-------|-------|--------|-------|-------|-------|--------|--------|
| Aguirre, Nancy P | -0.80 | -1.05 | -1.84 | 0.02 | 0.08 | 0.25 | -1.76 | -1.54 |
| Avis, Steven | 0.00 | -0.14 | 0.53 | -1.55 | -1.06 | -1.15 | 0.90 | 0.76 |
| Barrera, Tony | -0.52 | -0.92 | -2.41 | -0.42 | -0.17 | 0.26 | 0.69 | 0.49 |
| Cales, Jonathon | 0.87 | -0.14 | 0.49 | -0.59 | 0.99 | 0.98 | -1.50 | 0.76 |
| Cumberworth, Lee | -0.57 | -0.92 | 0.94 | -0.15 | -1.21 | -1.22 | 0.74 | 1.16 |
| Grundza, Richard | -0.14 | 1.03 | 0.32 | 0.19 | 0.50 | 0.58 | -0.87 | -0.46 |
| Hills, Barry | -1.18 | -0.27 | 0.69 | -0.77 | -1.12 | -0.90 | 0.90 | 0.49 |
| Hurst, Kevin R. | -0.69 | -0.92 | 0.49 | 1.24 | -0.85 | -0.57 | 1.05 | 0.76 |
| Kraemer, Vernon | 2.43 | 1.42 | 0.04 | 1.68 | 2.12 | 2.46 | -1.08 | 0.22 |
| Lowry, Shannon | 0.09 | 1.81 | -0.17 | -0.20 | -0.11 | 0.42 | -0.25 | 0.49 |
| Sanchez, Arthur | 1.27 | 1.03 | 0.69 | -1.25 | 0.25 | -0.53 | 0.38 | -2.08 |
| Seiz, Ray | 0.00 | -0.01 | -0.04 | 1.55 | 1.14 | -0.33 | 0.90 | 0.08 |
| Veiga, Victor | -0.76 | -0.92 | 0.28 | 0.24 | -0.56 | -0.24 | -0.09 | -1.13 |
| MAXIMUM | 2.43 | 1.81 | -2.41 | 1.68 | 2.12 | 2.46 | -1.76 | -2.08 |
| MINIMUM | 0.00 | -0.01 | 0.04 | 0.02 | 0.08 | -0.24 | -0.09 | 0.08 |
| RANGE(MAX-MIN) | 2.432 | 1.819 | -2.449 | 1.660 | 2.034 | 2.697 | -1.664 | -2.159 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= B5 - SQUARE CUT DIESEL

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | G4TOT | L2TOT | L3TOT | L4TOT |
|--------------------|-------|-------|-------|-------|-------|-------|-------|
| Avis, Steven | 0.29 | 7.93 | 9.40 | 9.90 | 6.41 | 9.71 | 9.85 |
| Cales, Jonathon | 0.56 | 7.50 | 8.90 | 9.71 | 5.74 | 9.23 | 9.50 |
| Hills, Barry | 0.41 | 8.25 | 9.52 | 9.88 | 6.31 | 8.83 | 9.70 |
| Kraemer, Vernon | 0.30 | 7.82 | 8.73 | 9.68 | 6.77 | 9.13 | 9.38 |
| Sanchez, Arthur | 0.34 | 8.59 | 9.45 | 9.90 | 7.06 | 9.45 | 9.78 |
| Seiz, Ray | 0.29 | 8.94 | 9.59 | 9.85 | 5.47 | 9.29 | 9.64 |
| Veiga, Victor | 0.24 | 9.09 | 9.65 | 9.72 | 5.81 | 9.34 | 9.59 |
| MAXIMUM | 0.56 | 9.09 | 9.65 | 9.90 | 7.06 | 9.71 | 9.85 |
| MINIMUM | 0.24 | 7.50 | 8.73 | 9.68 | 5.47 | 8.83 | 9.38 |
| RANGE(MAX-MIN) | 0.320 | 1.590 | 0.920 | 0.220 | 1.590 | 0.880 | 0.470 |
| MEAN | 0.347 | 8.303 | 9.320 | 9.806 | 6.224 | 9.283 | 9.634 |
| STANDARD DEVIATION | 0.108 | 0.595 | 0.358 | 0.098 | 0.579 | 0.272 | 0.162 |

Part ID= B5 - SQUARE CUT DIESEL

B5 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | G4TOT | L2TOT | L3TOT | L4TOT |
|--------------------|-------|--------|--------|--------|-------|--------|--------|
| Avis, Steven | -0.53 | -0.63 | 0.22 | 0.96 | 0.32 | 1.57 | 1.33 |
| Cales, Jonathon | 1.98 | -1.35 | -1.17 | -0.98 | -0.84 | -0.19 | -0.83 |
| Hills, Barry | 0.58 | -0.09 | 0.56 | 0.76 | 0.15 | -1.66 | 0.41 |
| Kraemer, Vernon | -0.44 | -0.81 | -1.65 | -1.28 | 0.94 | -0.56 | -1.57 |
| Sanchez, Arthur | -0.07 | 0.48 | 0.36 | 0.96 | 1.44 | 0.61 | 0.90 |
| Seiz, Ray | -0.53 | 1.07 | 0.75 | 0.45 | -1.30 | 0.03 | 0.04 |
| Veiga, Victor | -1.00 | 1.32 | 0.92 | -0.88 | -0.72 | 0.21 | -0.27 |
| MAXIMUM | 1.98 | -1.35 | -1.65 | -1.28 | 1.44 | -1.66 | -1.57 |
| MINIMUM | -0.07 | -0.09 | 0.22 | 0.45 | 0.15 | 0.03 | 0.04 |
| RANGE(MAX-MIN) | 2.043 | -1.260 | -1.871 | -1.736 | 1.295 | -1.689 | -1.609 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= B6 - SEQUENCE III

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Aguirre, Nancy P | 5.42 | 0.73 | 9.47 | 0.99 | 1.92 | 2.67 | 9.48 | 9.79 |
| Avis, Steven | 6.40 | 0.69 | 9.81 | 0.24 | 1.80 | 2.10 | 9.59 | 9.95 |
| Barrera, Tony | 5.38 | 0.73 | 9.48 | 0.60 | 1.67 | 2.51 | 9.44 | 9.78 |
| Cales, Jonathon | 5.96 | 0.69 | 9.70 | 0.53 | 2.06 | 2.52 | 9.54 | 9.95 |
| Hills, Barry | 5.29 | 0.74 | 9.88 | 0.52 | 2.07 | 1.68 | 9.73 | 9.90 |
| Hurst, Kevin R. | 6.51 | 0.66 | 9.65 | 0.81 | 1.68 | 2.45 | 9.77 | 9.90 |
| Kraemer, Vernon | 7.07 | 0.70 | 8.92 | 0.54 | 2.50 | 3.78 | 9.29 | 9.79 |
| Lowry, Shannon | 6.03 | 0.74 | 9.69 | 1.10 | 1.82 | 3.45 | 9.68 | 9.93 |
| Sanchez, Arthur | 6.48 | 0.72 | 9.88 | 0.98 | 1.47 | 2.11 | 9.70 | 9.80 |
| Seiz, Ray | 5.43 | 0.57 | 9.69 | 0.66 | 2.57 | 2.34 | 9.76 | 9.85 |
| Veiga, Victor | 6.57 | 0.68 | 9.71 | 0.62 | 1.99 | 2.70 | 9.69 | 9.80 |
| MAXIMUM | 7.07 | 0.74 | 9.88 | 1.10 | 2.57 | 3.78 | 9.77 | 9.95 |
| MINIMUM | 5.29 | 0.57 | 8.92 | 0.24 | 1.47 | 1.68 | 9.29 | 9.78 |
| RANGE(MAX-MIN) | 1.780 | 0.170 | 0.960 | 0.860 | 1.100 | 2.100 | 0.480 | 0.170 |
| MEAN | 6.049 | 0.695 | 9.625 | 0.690 | 1.959 | 2.574 | 9.606 | 9.858 |
| STANDARD DEVIATION | 0.604 | 0.049 | 0.270 | 0.255 | 0.337 | 0.597 | 0.153 | 0.069 |

Part ID= B6 - SEQUENCE III

B6 Y1 Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|--------------------|-------|--------|--------|--------|-------|-------|--------|-------|
| Aguirre, Nancy P | -1.04 | 0.70 | -0.58 | 1.18 | -0.12 | 0.16 | -0.82 | -0.99 |
| Avis, Steven | 0.58 | -0.11 | 0.68 | -1.77 | -0.47 | -0.79 | -0.11 | 1.33 |
| Barrera, Tony | -1.11 | 0.70 | -0.54 | -0.35 | -0.86 | -0.11 | -1.08 | -1.13 |
| Cales, Jonathon | -0.15 | -0.11 | 0.28 | -0.63 | 0.30 | -0.09 | -0.43 | 1.33 |
| Hills, Barry | -1.26 | 0.90 | 0.94 | -0.67 | 0.33 | -1.50 | 0.81 | 0.61 |
| Hurst, Kevin R. | 0.76 | -0.72 | 0.09 | 0.47 | -0.83 | -0.21 | 1.07 | 0.61 |
| Kraemer, Vernon | 1.69 | 0.09 | -2.61 | -0.59 | 1.60 | 2.02 | -2.06 | -0.99 |
| Lowry, Shannon | -0.03 | 0.90 | 0.24 | 1.61 | -0.41 | 1.47 | 0.48 | 1.04 |
| Sanchez, Arthur | 0.71 | 0.50 | 0.94 | 1.14 | -1.45 | -0.78 | 0.61 | -0.84 |
| Seiz, Ray | -1.03 | -2.55 | 0.24 | -0.12 | 1.81 | -0.39 | 1.00 | -0.12 |
| Veiga, Victor | 0.86 | -0.31 | 0.31 | -0.27 | 0.09 | 0.21 | 0.55 | -0.84 |
| MAXIMUM | 1.69 | -2.55 | -2.61 | -1.77 | 1.81 | 2.02 | -2.06 | 1.33 |
| MINIMUM | -0.03 | 0.09 | 0.09 | -0.12 | 0.09 | -0.09 | -0.11 | -0.12 |
| RANGE(MAX-MIN) | 1.722 | -2.639 | -2.705 | -1.647 | 1.721 | 2.111 | -1.956 | 1.447 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= B7 - SQUARE CUT DIESEL

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | G4TOT | L2TOT | L3TOT | L4TOT |
|--------------------|-------|-------|-------|-------|-------|-------|-------|
| Avis, Steven | 0.44 | 5.56 | 9.75 | 9.90 | 2.23 | 9.74 | 9.64 |
| Cales, Jonathon | 0.62 | 5.78 | 9.85 | 9.90 | 2.35 | 9.56 | 8.89 |
| Hills, Barry | 0.47 | 5.97 | 9.80 | 9.70 | 3.06 | 9.52 | 9.47 |
| Kraemer, Vernon | 0.36 | 6.86 | 9.80 | 9.85 | 3.29 | 8.57 | 8.62 |
| Sanchez, Arthur | 0.57 | 5.69 | 9.70 | 9.80 | 2.69 | 9.77 | 9.72 |
| Seiz, Ray | 0.26 | 5.75 | 9.80 | 9.79 | 3.45 | 9.51 | 9.38 |
| Veiga, Victor | 0.54 | 6.06 | 9.80 | 9.76 | 2.12 | 9.56 | 9.50 |
| MAXIMUM | 0.62 | 6.86 | 9.85 | 9.90 | 3.45 | 9.77 | 9.72 |
| MINIMUM | 0.26 | 5.56 | 9.70 | 9.70 | 2.12 | 8.57 | 8.62 |
| RANGE(MAX-MIN) | 0.360 | 1.300 | 0.150 | 0.200 | 1.330 | 1.200 | 1.100 |
| MEAN | 0.466 | 5.953 | 9.786 | 9.814 | 2.741 | 9.461 | 9.317 |
| STANDARD DEVIATION | 0.125 | 0.434 | 0.048 | 0.074 | 0.534 | 0.407 | 0.407 |

Part ID= B7 - SQUARE CUT DIESEL

B7 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | G4TOT | L2TOT | L3TOT | L4TOT |
|--------------------|--------|-------|--------|--------|-------|--------|--------|
| Avis, Steven | -0.21 | -0.91 | -0.75 | 1.16 | -0.96 | 0.68 | 0.79 |
| Cales, Jonathon | 1.23 | -0.40 | 1.35 | 1.16 | -0.73 | 0.24 | -1.05 |
| Hills, Barry | 0.03 | 0.04 | 0.30 | -1.55 | 0.60 | 0.14 | 0.38 |
| Kraemer, Vernon | -0.84 | 2.09 | 0.30 | 0.48 | 1.03 | -2.19 | -1.71 |
| Sanchez, Arthur | 0.83 | -0.61 | -1.80 | -0.19 | -0.10 | 0.76 | 0.99 |
| Seiz, Ray | -1.64 | -0.47 | 0.30 | -0.33 | 1.33 | 0.12 | 0.15 |
| Veiga, Victor | 0.59 | 0.25 | 0.30 | -0.73 | -1.16 | 0.24 | 0.45 |
| MAXIMUM | -1.64 | 2.09 | -1.80 | -1.55 | 1.33 | -2.19 | -1.71 |
| MINIMUM | 0.03 | 0.04 | 0.30 | -0.19 | -0.10 | 0.12 | 0.15 |
| RANGE(MAX-MIN) | -1.675 | 2.052 | -2.103 | -1.353 | 1.424 | -2.311 | -1.866 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= B8 - FIELD PISTON

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | FRTOT | RRTOT |
|--------------------|-------|-------|-------|-------|-------|-------|-------|
| Avis, Steven | 0.70 | 0.65 | 2.67 | 1.42 | 2.58 | 6.61 | 6.11 |
| Cales, Jonathon | 0.75 | 0.75 | 3.48 | 2.54 | 2.65 | 6.08 | 6.15 |
| Hills, Barry | 0.81 | 0.75 | 2.43 | 1.65 | 2.50 | 6.73 | 5.91 |
| Hurst, Kevin R. | 0.69 | 0.75 | 2.56 | 1.74 | 2.59 | 6.08 | 5.51 |
| Lowry, Shannon | 0.80 | 0.80 | 2.33 | 1.95 | 2.82 | 6.73 | 5.81 |
| Sanchez, Arthur | 0.60 | 0.77 | 2.68 | 1.58 | 2.75 | 7.04 | 6.74 |
| Seiz, Ray | 0.82 | 0.68 | 3.18 | 1.70 | 3.64 | 7.06 | 6.24 |
| Veiga, Victor | 0.80 | 0.75 | 3.73 | 1.79 | 3.80 | 7.24 | 7.77 |
| MAXIMUM | 0.82 | 0.80 | 3.73 | 2.54 | 3.80 | 7.24 | 7.77 |
| MINIMUM | 0.60 | 0.65 | 2.33 | 1.42 | 2.50 | 6.08 | 5.51 |
| RANGE(MAX-MIN) | 0.220 | 0.150 | 1.400 | 1.120 | 1.300 | 1.160 | 2.260 |
| MEAN | 0.746 | 0.738 | 2.883 | 1.796 | 2.916 | 6.696 | 6.280 |
| STANDARD DEVIATION | 0.077 | 0.049 | 0.516 | 0.338 | 0.508 | 0.433 | 0.700 |

Part ID= B8 - FIELD PISTON

B8 Y1 Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | FRTOT | RRTOT |
|--------------------|--------|--------|-------|-------|-------|--------|-------|
| Avis, Steven | -0.60 | -1.80 | -0.41 | -1.11 | -0.66 | -0.20 | -0.24 |
| Cales, Jonathon | 0.05 | 0.26 | 1.16 | 2.20 | -0.52 | -1.42 | -0.19 |
| Hills, Barry | 0.82 | 0.26 | -0.88 | -0.43 | -0.82 | 0.08 | -0.53 |
| Hurst, Kevin R. | -0.73 | 0.26 | -0.63 | -0.17 | -0.64 | -1.42 | -1.10 |
| Lowry, Shannon | 0.69 | 1.29 | -1.07 | 0.46 | -0.19 | 0.08 | -0.67 |
| Sanchez, Arthur | -1.89 | 0.67 | -0.39 | -0.64 | -0.33 | 0.79 | 0.66 |
| Seiz, Ray | 0.95 | -1.18 | 0.58 | -0.28 | 1.43 | 0.84 | -0.06 |
| Veiga, Victor | 0.69 | 0.26 | 1.64 | -0.02 | 1.74 | 1.25 | 2.13 |
| MAXIMUM | -1.89 | -1.80 | 1.64 | 2.20 | 1.74 | -1.42 | 2.13 |
| MINIMUM | 0.05 | 0.26 | -0.39 | -0.02 | -0.19 | 0.08 | -0.06 |
| RANGE(MAX-MIN) | -1.937 | -2.057 | 2.035 | 2.220 | 1.930 | -1.500 | 2.186 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= C1 - SEQUENCE III

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Avis, Steven | 1.98 | 0.75 | 8.86 | 1.14 | 0.86 | 7.66 | 9.89 | 9.95 |
| Caproni, David | 2.31 | 0.73 | 8.01 | 1.21 | 1.08 | 8.30 | 9.85 | 9.95 |
| Cumberworth, Lee | 2.10 | 0.75 | 8.84 | 1.23 | 0.85 | 8.03 | 9.86 | 9.90 |
| Foecking, Brian | 1.50 | 0.75 | 8.68 | 1.08 | 0.75 | 7.17 | 9.75 | 9.90 |
| Hills, Barry | 1.19 | 0.75 | 9.55 | 1.26 | 0.86 | 7.98 | 9.87 | 9.90 |
| Hurst, Kevin R. | 1.95 | 0.73 | 8.85 | 1.34 | 0.88 | 8.20 | 9.86 | 9.90 |
| Lonsway, Chris | 1.66 | 0.74 | 9.22 | 1.21 | 0.79 | 7.64 | 9.80 | 9.95 |
| Lowsky, John | 3.13 | 0.75 | 8.77 | 1.63 | 1.30 | 8.38 | 9.74 | 9.85 |
| Potocar, William P | 1.69 | 0.71 | 8.36 | 1.40 | 0.84 | 7.60 | 9.81 | 9.95 |
| Swanson, Dennis | 2.62 | 0.74 | 8.06 | 1.53 | 1.04 | 7.99 | 9.96 | 9.96 |
| Terrado, Ken | 3.13 | 0.75 | 8.37 | 1.17 | 1.35 | 8.06 | 9.84 | 9.90 |
| Trevino, Bobby | 2.27 | 0.75 | 8.92 | 1.22 | 0.87 | 7.60 | 9.79 | 9.90 |
| Veiga, Victor | 1.46 | 0.73 | 9.35 | 1.19 | 0.89 | 7.16 | 9.76 | 9.80 |
| Viera, Ralph B. | 1.67 | 0.75 | 8.95 | 1.19 | 0.89 | 7.45 | 9.95 | 9.98 |
| MAXIMUM | 3.13 | 0.75 | 9.55 | 1.63 | 1.35 | 8.38 | 9.96 | 9.98 |
| MINIMUM | 1.19 | 0.71 | 8.01 | 1.08 | 0.75 | 7.16 | 9.74 | 9.80 |
| RANGE(MAX-MIN) | 1.940 | 0.040 | 1.540 | 0.550 | 0.600 | 1.220 | 0.220 | 0.180 |
| MEAN | 2.047 | 0.741 | 8.771 | 1.271 | 0.946 | 7.801 | 9.838 | 9.914 |
| STANDARD DEVIATION | 0.595 | 0.012 | 0.451 | 0.153 | 0.182 | 0.391 | 0.068 | 0.048 |

Part ID= C1 - SEQUENCE III

C1 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|--------------------|-------|--------|-------|-------|-------|--------|-------|--------|
| Avis, Steven | -0.11 | 0.70 | 0.20 | -0.86 | -0.48 | -0.36 | 0.77 | 0.76 |
| Caproni, David | 0.44 | -0.93 | -1.69 | -0.40 | 0.73 | 1.27 | 0.18 | 0.76 |
| Cumberworth, Lee | 0.09 | 0.70 | 0.15 | -0.27 | -0.53 | 0.58 | 0.33 | -0.28 |
| Foecking, Brian | -0.92 | 0.70 | -0.20 | -1.25 | -1.08 | -1.61 | -1.29 | -0.28 |
| Hills, Barry | -1.44 | 0.70 | 1.73 | -0.07 | -0.48 | 0.46 | 0.47 | -0.28 |
| Hurst, Kevin R. | -0.16 | -0.93 | 0.18 | 0.45 | -0.37 | 1.02 | 0.33 | -0.28 |
| Lonsway, Chris | -0.65 | -0.12 | 1.00 | -0.40 | -0.86 | -0.41 | -0.56 | 0.76 |
| Lowsky, John | 1.82 | 0.70 | 0.00 | 2.34 | 1.94 | 1.48 | -1.44 | -1.33 |
| Potocar, William P | -0.60 | -2.55 | -0.91 | 0.84 | -0.59 | -0.51 | -0.41 | 0.76 |
| Swanson, Dennis | 0.96 | -0.12 | -1.58 | 1.68 | 0.51 | 0.48 | 1.79 | 0.97 |
| Terrado, Ken | 1.82 | 0.70 | -0.89 | -0.66 | 2.22 | 0.66 | 0.03 | -0.28 |
| Trevino, Bobby | 0.37 | 0.70 | 0.33 | -0.34 | -0.42 | -0.51 | -0.70 | -0.28 |
| Veiga, Victor | -0.99 | -0.93 | 1.29 | -0.53 | -0.31 | -1.64 | -1.14 | -2.37 |
| Viera, Ralph B. | -0.63 | 0.70 | 0.40 | -0.53 | -0.31 | -0.90 | 1.65 | 1.38 |
| MAXIMUM | 1.82 | -2.55 | 1.73 | 2.34 | 2.22 | -1.64 | 1.79 | -2.37 |
| MINIMUM | 0.09 | -0.12 | 0.00 | -0.07 | -0.31 | -0.36 | 0.03 | -0.28 |
| RANGE(MAX-MIN) | 1.730 | -2.436 | 1.731 | 2.411 | 2.530 | -1.278 | 1.763 | -2.084 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= C2 - SEQUENCE III

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THIOT | ATTOT | |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Avis, Steven | 7.41 | 0.75 | 8.68 | 1.05 | 1.71 | 2.35 | 9.48 | 9.90 | |
| Caproni, David | 7.04 | 0.75 | 8.16 | 1.74 | 2.03 | 2.40 | 9.49 | 9.90 | |
| Foeking, Brian | 5.74 | 0.75 | 8.78 | 1.32 | 1.53 | 2.00 | 9.41 | 9.89 | |
| Hills, Barry | 4.63 | 0.75 | 9.35 | 1.55 | 1.82 | 1.75 | 9.79 | 9.90 | |
| Hurst, Kevin R. | 5.39 | 0.75 | 8.73 | 1.87 | 1.68 | 2.00 | 9.73 | 9.90 | |
| Lonsway, Chris | 4.30 | 0.75 | 9.22 | 1.78 | 1.50 | 2.00 | 9.41 | 9.90 | |
| Lowsky, John | 6.44 | 0.75 | 8.74 | 2.03 | 2.42 | 3.55 | 9.60 | 9.80 | |
| Potocar, William P | 4.32 | 0.75 | 8.46 | 1.39 | 1.62 | 2.34 | 9.14 | 9.85 | |
| Swanson, Dennis | 6.71 | 0.74 | 8.20 | 1.48 | 2.14 | 2.70 | 9.64 | 9.91 | |
| Terrado, Ken | 5.20 | 0.75 | 8.31 | 1.19 | 2.44 | 2.83 | 9.77 | 9.90 | |
| Veiga, Victor | 4.87 | 0.74 | 8.63 | 1.34 | 1.92 | 2.55 | 9.62 | 9.80 | |
| Viera, Ralph B. | 5.76 | 0.71 | 8.62 | 1.59 | 1.84 | 2.48 | 9.51 | 9.99 | |
| MAXIMUM | 7.41 | 0.75 | 9.35 | 2.03 | 2.44 | 3.55 | 9.79 | 9.99 | |
| MINIMUM | 4.30 | 0.71 | 8.16 | 1.05 | 1.50 | 1.75 | 9.14 | 9.80 | |
| RANGE(MAX-MIN) | 3.110 | 0.040 | 1.190 | 0.980 | 0.940 | 1.800 | 0.650 | 0.190 | |
| MEAN | 5.651 | 0.745 | 8.657 | 1.528 | 1.888 | 2.413 | 9.549 | 9.887 | |
| STANDARD DEVIATION | 1.058 | 0.012 | 0.362 | 0.290 | 0.317 | 0.480 | 0.184 | 0.051 | |

Part ID= C2 - SEQUENCE III

C2 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THIOT | ATTOT | |
|--------------------|-------|--------|-------|-------|-------|-------|--------|-------|--|
| Avis, Steven | 1.66 | 0.43 | 0.06 | -1.65 | -0.56 | -0.13 | -0.38 | 0.26 | |
| Caproni, David | 1.31 | 0.43 | -1.37 | 0.73 | 0.45 | -0.03 | -0.32 | 0.26 | |
| Foeking, Brian | 0.08 | 0.43 | 0.34 | -0.72 | -1.13 | -0.86 | -0.76 | 0.07 | |
| Hills, Barry | -0.97 | 0.43 | 1.91 | 0.08 | -0.21 | -1.38 | 1.31 | 0.26 | |
| Hurst, Kevin R. | -0.25 | 0.43 | 0.20 | 1.18 | -0.65 | -0.86 | 0.98 | 0.26 | |
| Lonsway, Chris | -1.28 | 0.43 | 1.56 | 0.87 | -1.22 | -0.86 | -0.76 | 0.26 | |
| Lowsky, John | 0.75 | 0.43 | 0.23 | 1.73 | 1.68 | 2.37 | 0.28 | -1.70 | |
| Potocar, William P | -1.26 | 0.43 | -0.54 | -0.47 | -0.84 | -0.15 | -2.23 | -0.72 | |
| Swanson, Dennis | 1.00 | -0.43 | -1.26 | -0.16 | 0.80 | 0.60 | 0.49 | 0.46 | |
| Terrado, Ken | -0.43 | 0.43 | -0.96 | -1.16 | 1.74 | 0.87 | 1.20 | 0.26 | |
| Veiga, Victor | -0.74 | -0.43 | -0.07 | -0.65 | 0.10 | 0.29 | 0.39 | -1.70 | |
| Viera, Ralph B. | 0.10 | -3.00 | -0.10 | 0.22 | -0.15 | 0.14 | -0.21 | 2.02 | |
| MAXIMUM | 1.66 | -3.00 | 1.91 | 1.73 | 1.74 | 2.37 | -2.23 | 2.02 | |
| MINIMUM | 0.08 | 0.43 | 0.06 | 0.08 | 0.10 | -0.03 | -0.21 | 0.07 | |
| RANGE(MAX-MIN) | 1.579 | -3.425 | 1.850 | 1.656 | 1.641 | 2.396 | -2.014 | 1.959 | |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= C3 - SEQUENCE III

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Avis, Steven | 1.86 | 1.14 | 9.78 | 1.17 | 2.90 | 8.44 | 9.90 | 9.95 |
| Caproni, David | 1.80 | 1.51 | 9.66 | 1.63 | 3.12 | 8.44 | 9.95 | 9.95 |
| Foecking, Brian | 1.79 | 1.05 | 9.72 | 1.69 | 2.92 | 7.93 | 9.90 | 9.90 |
| Hills, Barry | 1.36 | 1.00 | 9.79 | 1.41 | 3.36 | 8.09 | 9.90 | 9.90 |
| Hurst, Kevin R. | 1.65 | 1.18 | 9.80 | 1.89 | 2.94 | 8.19 | 9.85 | 9.90 |
| Lonsway, Chris | 1.30 | 0.98 | 9.73 | 1.84 | 3.42 | 7.60 | 9.90 | 9.90 |
| Lowsky, John | 2.21 | 2.01 | 9.70 | 2.19 | 4.36 | 8.86 | 10.00 | 10.00 |
| Potocar, William P | 1.33 | 1.04 | 9.66 | 1.42 | 2.88 | 7.98 | 9.85 | 9.95 |
| Swanson, Dennis | 1.89 | 1.52 | 9.22 | 1.68 | 3.55 | 8.22 | 9.89 | 9.96 |
| Terrado, Ken | 2.05 | 1.57 | 9.83 | 1.27 | 3.38 | 8.02 | 9.90 | 9.90 |
| Veiga, Victor | 1.27 | 1.47 | 9.62 | 1.75 | 3.99 | 7.14 | 9.80 | 9.80 |
| Viera, Ralph B. | 1.48 | 1.01 | 9.77 | 1.69 | 3.23 | 8.03 | 9.98 | 9.98 |
| MAXIMUM | 2.21 | 2.01 | 9.83 | 2.19 | 4.36 | 8.86 | 10.00 | 10.00 |
| MINIMUM | 1.27 | 0.98 | 9.22 | 1.17 | 2.88 | 7.14 | 9.80 | 9.80 |
| RANGE(MAX-MIN) | 0.940 | 1.030 | 0.610 | 1.020 | 1.480 | 1.720 | 0.200 | 0.200 |
| MEAN | 1.666 | 1.290 | 9.690 | 1.636 | 3.338 | 8.078 | 9.902 | 9.924 |
| STANDARD DEVIATION | 0.316 | 0.322 | 0.161 | 0.283 | 0.459 | 0.432 | 0.056 | 0.053 |

Part ID= C3 - SEQUENCE III

C3 Yi Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|--------------------|-------|-------|--------|-------|-------|--------|--------|--------|
| Avis, Steven | 0.61 | -0.47 | 0.56 | -1.64 | -0.95 | 0.84 | -0.03 | 0.49 |
| Caproni, David | 0.42 | 0.68 | -0.19 | -0.02 | -0.47 | 0.84 | 0.87 | 0.49 |
| Foecking, Brian | 0.39 | -0.74 | 0.19 | 0.19 | -0.91 | -0.34 | -0.03 | -0.46 |
| Hills, Barry | -0.97 | -0.90 | 0.62 | -0.80 | 0.05 | 0.03 | -0.03 | -0.46 |
| Hurst, Kevin R. | -0.05 | -0.34 | 0.68 | 0.90 | -0.87 | 0.26 | -0.93 | -0.46 |
| Lonsway, Chris | -1.16 | -0.96 | 0.25 | 0.72 | 0.18 | -1.11 | -0.03 | -0.46 |
| Lowsky, John | 1.72 | 2.23 | 0.06 | 1.96 | 2.23 | 1.81 | 1.77 | 1.44 |
| Potocar, William P | -1.06 | -0.78 | -0.19 | -0.76 | -1.00 | -0.23 | -0.93 | 0.49 |
| Swanson, Dennis | 0.71 | 0.71 | -2.91 | 0.16 | 0.46 | 0.33 | -0.21 | 0.68 |
| Terrado, Ken | 1.22 | 0.87 | 0.87 | -1.29 | 0.09 | -0.14 | -0.03 | -0.46 |
| Veiga, Victor | -1.25 | 0.56 | -0.43 | 0.40 | 1.42 | -2.17 | -1.83 | -2.36 |
| Viera, Ralph B. | -0.59 | -0.87 | 0.50 | 0.19 | -0.23 | -0.11 | 1.41 | 1.06 |
| MAXIMUM | 1.72 | 2.23 | -2.91 | 1.96 | 2.23 | -2.17 | -1.83 | -2.36 |
| MINIMUM | -0.05 | -0.34 | 0.06 | -0.02 | 0.05 | 0.03 | -0.03 | -0.46 |
| RANGE(MAX-MIN) | 1.774 | 2.574 | -2.975 | 1.977 | 2.179 | -2.200 | -1.800 | -1.899 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= C4 - SEQUENCE III

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Avis, Steven | 5.34 | 4.34 | 8.83 | 0.74 | 3.59 | 1.55 | 9.74 | 9.95 |
| Caproni, David | 4.92 | 3.99 | 8.40 | 0.95 | 4.11 | 2.20 | 9.80 | 9.95 |
| Foecking, Brian | 4.04 | 3.97 | 8.93 | 0.75 | 3.23 | 2.00 | 9.71 | 9.90 |
| Hurst, Kevin R. | 5.12 | 3.58 | 8.65 | 1.14 | 3.75 | 1.81 | 9.82 | 9.90 |
| Lonsway, Chris | 3.80 | 4.45 | 8.86 | 1.22 | 3.48 | 1.27 | 9.83 | 9.90 |
| Lowsky, John | 5.68 | 5.12 | 8.68 | 1.52 | 4.50 | 2.95 | 9.66 | 9.85 |
| Potocar, William P | 3.71 | 4.15 | 8.21 | 0.69 | 3.91 | 1.50 | 9.70 | 9.95 |
| Swanson, Dennis | 5.08 | 4.27 | 7.99 | 1.15 | 4.12 | 2.00 | 9.52 | 9.94 |
| Terrado, Ken | 4.86 | 4.10 | 8.37 | 1.21 | 4.43 | 2.70 | 9.74 | 9.90 |
| Veiga, Victor | 4.10 | 4.37 | 8.85 | 1.32 | 3.94 | 2.25 | 9.75 | 9.80 |
| Viera, Ralph B. | 4.38 | 3.84 | 8.65 | 1.10 | 4.39 | 1.93 | 9.48 | 9.96 |
| MAXIMUM | 5.68 | 5.12 | 8.93 | 1.52 | 4.50 | 2.95 | 9.83 | 9.96 |
| MINIMUM | 3.71 | 3.58 | 7.99 | 0.69 | 3.23 | 1.27 | 9.48 | 9.80 |
| RANGE(MAX-MIN) | 1.970 | 1.540 | 0.940 | 0.830 | 1.270 | 1.680 | 0.350 | 0.160 |
| MEAN | 4.639 | 4.198 | 8.584 | 1.072 | 3.950 | 2.015 | 9.705 | 9.909 |
| STANDARD DEVIATION | 0.664 | 0.398 | 0.303 | 0.263 | 0.411 | 0.502 | 0.114 | 0.049 |

Part ID= C4 - SEQUENCE III

C4 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|--------------------|-------|-------|--------|-------|--------|-------|--------|--------|
| Avis, Steven | 1.06 | 0.36 | 0.81 | -1.26 | -0.88 | -0.93 | 0.31 | 0.83 |
| Caproni, David | 0.42 | -0.52 | -0.61 | -0.46 | 0.39 | 0.37 | 0.84 | 0.83 |
| Foecking, Brian | -0.90 | -0.57 | 1.14 | -1.23 | -1.75 | -0.03 | 0.05 | -0.18 |
| Hurst, Kevin R. | 0.72 | -1.55 | 0.22 | 0.26 | -0.49 | -0.41 | 1.02 | -0.18 |
| Lonsway, Chris | -1.26 | 0.63 | 0.91 | 0.56 | -1.14 | -1.48 | 1.10 | -0.18 |
| Lowsky, John | 1.57 | 2.31 | 0.32 | 1.71 | 1.34 | 1.86 | -0.39 | -1.20 |
| Potocar, William P | -1.40 | -0.12 | -1.23 | -1.45 | -0.10 | -1.03 | -0.04 | 0.83 |
| Swanson, Dennis | 0.66 | 0.18 | -1.96 | 0.30 | 0.41 | -0.03 | -1.62 | 0.63 |
| Terrado, Ken | 0.33 | -0.25 | -0.71 | 0.53 | 1.17 | 1.37 | 0.31 | -0.18 |
| Veiga, Victor | -0.81 | 0.43 | 0.88 | 0.95 | -0.02 | 0.47 | 0.40 | -2.21 |
| Viera, Ralph B. | -0.39 | -0.90 | 0.22 | 0.11 | 1.07 | -0.17 | -1.97 | 1.03 |
| MAXIMUM | 1.57 | 2.31 | -1.96 | 1.71 | -1.75 | 1.86 | -1.97 | -2.21 |
| MINIMUM | 0.33 | -0.12 | 0.22 | 0.11 | -0.02 | -0.03 | -0.04 | -0.18 |
| RANGE(MAX-MIN) | 1.235 | 2.436 | -2.179 | 1.600 | -1.726 | 1.893 | -1.935 | -2.029 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= C5 - SQUARE CUT DIESEL

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | G4TOT | L2TOT | L3TOT | L4TOT |
|--------------------|-------|-------|-------|-------|-------|-------|-------|
| Avis, Steven | 3.56 | 7.19 | 9.75 | 9.90 | 5.02 | 9.45 | 9.76 |
| Caproni, David | 4.53 | 7.34 | 9.70 | 9.90 | 5.77 | 8.98 | 9.46 |
| Foecking, Brian | 3.49 | 7.68 | 9.77 | 9.95 | 4.92 | 8.69 | 9.33 |
| Hurst, Kevin R. | 5.27 | 7.63 | 9.37 | 9.90 | 5.01 | 8.83 | 9.55 |
| Lonsway, Chris | 4.59 | 7.45 | 9.60 | 9.95 | 5.28 | 8.90 | 9.57 |
| Lowsky, John | 6.43 | 8.48 | 9.42 | 10.00 | 6.18 | 9.15 | 9.65 |
| Potocar, William P | 4.39 | 7.52 | 9.20 | 9.95 | 5.07 | 9.02 | 9.58 |
| Swanson, Dennis | 3.89 | 6.60 | 8.45 | 9.80 | 5.41 | 8.30 | 9.08 |
| Terrado, Ken | 4.64 | 7.54 | 9.00 | 9.90 | 5.26 | 9.13 | 9.59 |
| Viera, Ralph B. | 4.43 | 7.06 | 8.87 | 9.67 | 5.74 | 8.76 | 9.54 |
| MAXIMUM | 6.43 | 8.48 | 9.77 | 10.00 | 6.18 | 9.45 | 9.76 |
| MINIMUM | 3.49 | 6.60 | 8.45 | 9.67 | 4.92 | 8.30 | 9.08 |
| RANGE(MAX-MIN) | 2.940 | 1.880 | 1.320 | 0.330 | 1.260 | 1.150 | 0.680 |
| MEAN | 4.522 | 7.449 | 9.313 | 9.892 | 5.366 | 8.921 | 9.511 |
| STANDARD DEVIATION | 0.859 | 0.485 | 0.434 | 0.094 | 0.411 | 0.310 | 0.188 |

Part ID= C5 - SQUARE CUT DIESEL

C5 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | G4TOT | L2TOT | L3TOT | L4TOT |
|--------------------|-------|-------|--------|--------|-------|--------|--------|
| Avis, Steven | -1.12 | -0.53 | 1.01 | 0.09 | -0.84 | 1.71 | 1.32 |
| Caproni, David | 0.01 | -0.22 | 0.89 | 0.09 | 0.98 | 0.19 | -0.27 |
| Foecking, Brian | -1.20 | 0.48 | 1.05 | 0.62 | -1.09 | -0.75 | -0.96 |
| Hurst, Kevin R. | 0.87 | 0.37 | 0.13 | 0.09 | -0.87 | -0.29 | 0.21 |
| Lonsway, Chris | 0.08 | 0.00 | 0.66 | 0.62 | -0.21 | -0.07 | 0.31 |
| Lowsky, John | 2.22 | 2.13 | 0.25 | 1.15 | 1.98 | 0.74 | 0.74 |
| Potocar, William P | -0.15 | 0.15 | -0.26 | 0.62 | -0.72 | 0.32 | 0.37 |
| Swanson, Dennis | -0.74 | -1.75 | -1.99 | -0.98 | 0.11 | -2.01 | -2.29 |
| Terrado, Ken | 0.14 | 0.19 | -0.72 | 0.09 | -0.26 | 0.68 | 0.42 |
| Viera, Ralph B. | -0.11 | -0.80 | -1.02 | -2.36 | 0.91 | -0.52 | 0.15 |
| MAXIMUM | 2.22 | 2.13 | -1.99 | -2.36 | 1.98 | -2.01 | -2.29 |
| MINIMUM | 0.01 | 0.00 | 0.13 | 0.09 | 0.11 | -0.07 | 0.15 |
| RANGE(MAX-MIN) | 2.213 | 2.126 | -2.118 | -2.443 | 1.874 | -1.938 | -2.442 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= C6 - SEQUENCE III

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Avis, Steven | 5.42 | 0.73 | 9.85 | 0.82 | 2.08 | 2.57 | 9.39 | 9.95 |
| Caproni, David | 5.24 | 0.74 | 9.63 | 1.14 | 2.96 | 2.71 | 9.11 | 9.95 |
| Foecking, Brian | 4.52 | 0.74 | 9.77 | 0.92 | 2.33 | 2.16 | 9.21 | 9.95 |
| Hurst, Kevin R. | 4.11 | 0.71 | 9.52 | 1.16 | 2.30 | 2.56 | 9.51 | 9.85 |
| Lonsway, Chris | 4.37 | 0.73 | 9.79 | 1.06 | 2.43 | 2.19 | 9.26 | 9.90 |
| Lowsky, John | 5.94 | 0.71 | 9.43 | 1.17 | 4.22 | 3.75 | 9.46 | 9.90 |
| Potocar, William P | 2.77 | 0.72 | 9.47 | 1.00 | 2.28 | 3.08 | 9.27 | 9.85 |
| Swanson, Dennis | 3.91 | 0.69 | 8.89 | 0.85 | 2.89 | 2.97 | 8.81 | 9.92 |
| Terrado, Ken | 4.93 | 0.74 | 9.73 | 1.06 | 3.12 | 2.61 | 9.16 | 9.90 |
| Veiga, Victor | 3.04 | 0.74 | 9.64 | 1.13 | 3.22 | 3.28 | 9.53 | 9.80 |
| Viera, Ralph B. | 4.49 | 0.72 | 9.60 | 1.01 | 3.36 | 2.69 | 9.30 | 9.98 |
| MAXIMUM | 5.94 | 0.74 | 9.85 | 1.17 | 4.22 | 3.75 | 9.53 | 9.98 |
| MINIMUM | 2.77 | 0.69 | 8.89 | 0.82 | 2.08 | 2.16 | 8.81 | 9.80 |
| RANGE(MAX-MIN) | 3.170 | 0.050 | 0.960 | 0.350 | 2.140 | 1.590 | 0.720 | 0.180 |
| MEAN | 4.431 | 0.725 | 9.575 | 1.029 | 2.835 | 2.779 | 9.274 | 9.905 |
| STANDARD DEVIATION | 0.961 | 0.016 | 0.264 | 0.123 | 0.634 | 0.467 | 0.207 | 0.054 |

Part ID= C6 - SEQUENCE III

C6 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT |
|--------------------|--------|--------|--------|--------|-------|-------|--------|--------|
| Avis, Steven | 1.03 | 0.33 | 1.04 | -1.71 | -1.19 | -0.45 | 0.56 | 0.84 |
| Caproni, David | 0.84 | 0.95 | 0.21 | 0.90 | 0.20 | -0.15 | -0.79 | 0.84 |
| Foecking, Brian | 0.09 | 0.95 | 0.74 | -0.89 | -0.80 | -1.32 | -0.31 | 0.84 |
| Hurst, Kevin R. | -0.33 | -0.89 | -0.21 | 1.07 | -0.84 | -0.47 | 1.14 | -1.01 |
| Lonsway, Chris | -0.06 | 0.33 | 0.82 | 0.25 | -0.64 | -1.26 | -0.07 | -0.08 |
| Lowsky, John | 1.57 | -0.89 | -0.55 | 1.15 | 2.18 | 2.08 | 0.90 | -0.08 |
| Potocar, William P | -1.73 | -0.28 | -0.40 | -0.24 | -0.88 | 0.64 | -0.02 | -1.01 |
| Swanson, Dennis | -0.54 | -2.11 | -2.59 | -1.46 | 0.09 | 0.41 | -2.24 | 0.29 |
| Terrado, Ken | 0.52 | 0.95 | 0.59 | 0.25 | 0.45 | -0.36 | -0.55 | -0.08 |
| Veiga, Victor | -1.45 | 0.95 | 0.25 | 0.82 | 0.61 | 1.07 | 1.24 | -1.94 |
| Viera, Ralph B. | 0.06 | -0.28 | 0.10 | -0.16 | 0.83 | -0.19 | 0.13 | 1.40 |
| MAXIMUM | -1.73 | -2.11 | -2.59 | -1.71 | 2.18 | 2.08 | -2.24 | -1.94 |
| MINIMUM | 0.06 | -0.28 | 0.10 | -0.16 | 0.09 | -0.15 | -0.02 | -0.08 |
| RANGE(MAX-MIN) | -1.789 | -1.835 | -2.691 | -1.550 | 2.096 | 2.225 | -2.220 | -1.855 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= C7 - SQUARE CUT DIESEL

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | G4TOT | I2TOT | I3TOT | I4TOT |
|--------------------|-------|-------|-------|-------|-------|-------|-------|
| Avis, Steven | 1.95 | 9.22 | 9.90 | 9.95 | 4.57 | 9.95 | 9.95 |
| Caproni, David | 1.70 | 9.60 | 9.90 | 9.90 | 5.11 | 9.50 | 9.50 |
| Foecking, Brian | 2.09 | 9.39 | 9.95 | 9.95 | 4.64 | 9.89 | 9.90 |
| Hurst, Kevin R. | 2.44 | 8.66 | 9.80 | 9.80 | 4.81 | 9.72 | 9.72 |
| Lonsway, Chris | 1.89 | 8.72 | 9.90 | 9.95 | 4.40 | 9.60 | 9.80 |
| Lowsky, John | 2.50 | 9.56 | 9.85 | 9.85 | 5.51 | 9.65 | 9.65 |
| Potocar, William P | 1.94 | 8.61 | 9.95 | 9.98 | 4.85 | 9.90 | 9.93 |
| Swanson, Dennis | 2.19 | 8.40 | 9.80 | 9.90 | 3.53 | 9.31 | 9.41 |
| Viera, Ralph B. | 1.36 | 8.73 | 9.90 | 9.96 | 4.49 | 9.79 | 9.86 |
| MAXIMUM | 2.50 | 9.60 | 9.95 | 9.98 | 5.51 | 9.95 | 9.95 |
| MINIMUM | 1.36 | 8.40 | 9.80 | 9.80 | 3.53 | 9.31 | 9.41 |
| RANGE(MAX-MIN) | 1.140 | 1.200 | 0.150 | 0.180 | 1.980 | 0.640 | 0.540 |
| MEAN | 2.007 | 8.988 | 9.883 | 9.916 | 4.657 | 9.701 | 9.747 |
| STANDARD DEVIATION | 0.354 | 0.454 | 0.056 | 0.059 | 0.544 | 0.210 | 0.193 |

Part ID= C7 - SQUARE CUT DIESEL

C7 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | G4TOT | I2TOT | I3TOT | I4TOT |
|--------------------|--------|-------|--------|--------|--------|--------|--------|
| Avis, Steven | -0.16 | 0.51 | 0.30 | 0.58 | -0.16 | 1.19 | 1.05 |
| Caproni, David | -0.87 | 1.35 | 0.30 | -0.26 | 0.83 | -0.96 | -1.28 |
| Foecking, Brian | 0.24 | 0.89 | 1.19 | 0.58 | -0.03 | 0.90 | 0.79 |
| Hurst, Kevin R. | 1.22 | -0.72 | -1.49 | -1.96 | 0.28 | 0.09 | -0.14 |
| Lonsway, Chris | -0.33 | -0.59 | 0.30 | 0.58 | -0.47 | -0.48 | 0.28 |
| Lowsky, John | 1.39 | 1.26 | -0.60 | -1.11 | 1.57 | -0.24 | -0.50 |
| Potocar, William P | -0.19 | -0.83 | 1.19 | 1.09 | 0.36 | 0.95 | 0.95 |
| Swanson, Dennis | 0.52 | -1.29 | -1.49 | -0.26 | -2.07 | -1.87 | -1.74 |
| Viera, Ralph B. | -1.82 | -0.57 | 0.30 | 0.75 | -0.31 | 0.42 | 0.59 |
| MAXIMUM | -1.82 | 1.35 | -1.49 | -1.96 | -2.07 | -1.87 | -1.74 |
| MINIMUM | -0.16 | 0.51 | 0.30 | -0.26 | -0.03 | 0.09 | -0.14 |
| RANGE(MAX-MIN) | -1.664 | 0.836 | -1.789 | -1.696 | -2.041 | -1.956 | -1.605 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= C8 - FIELD PISTON

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | FRTOT | RRTOT |
|--------------------|-------|-------|-------|-------|-------|-------|-------|
| Avis, Steven | 0.68 | 0.75 | 2.05 | 0.92 | 0.82 | 5.96 | 4.86 |
| Caproni, David | 0.58 | 0.80 | 2.74 | 1.09 | 1.35 | 5.90 | 5.70 |
| Foecking, Brian | 0.62 | 0.91 | 2.00 | 1.04 | 0.94 | 5.69 | 4.87 |
| Hurst, Kevin R. | 0.69 | 0.83 | 2.59 | 1.11 | 1.50 | 5.76 | 4.79 |
| Lowsky, John | 0.59 | 0.92 | 3.15 | 1.20 | 0.97 | 6.08 | 4.45 |
| Potocar, William P | 0.61 | 0.92 | 2.21 | 0.92 | 0.92 | 5.45 | 4.45 |
| Swanson, Dennis | 0.48 | 0.95 | 3.36 | 1.16 | 1.19 | 5.60 | 4.55 |
| Viera, Ralph B. | 0.69 | 0.82 | 3.58 | 1.25 | 1.07 | 6.29 | 4.83 |
| MAXIMUM | 0.69 | 0.95 | 3.58 | 1.25 | 1.50 | 6.29 | 5.70 |
| MINIMUM | 0.48 | 0.75 | 2.00 | 0.92 | 0.82 | 5.45 | 4.45 |
| RANGE(MAX-MIN) | 0.210 | 0.200 | 1.580 | 0.330 | 0.680 | 0.840 | 1.250 |
| MEAN | 0.618 | 0.863 | 2.710 | 1.086 | 1.095 | 5.841 | 4.813 |
| STANDARD DEVIATION | 0.071 | 0.072 | 0.607 | 0.121 | 0.234 | 0.272 | 0.401 |

Part ID= C8 - FIELD PISTON

C8 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | FRTOT | RRTOT |
|--------------------|--------|--------|-------|--------|-------|-------|-------|
| Avis, Steven | 0.88 | -1.57 | -1.09 | -1.37 | -1.17 | 0.44 | 0.12 |
| Caproni, David | -0.53 | -0.87 | 0.05 | 0.03 | 1.09 | 0.22 | 2.21 |
| Foecking, Brian | 0.04 | 0.66 | -1.17 | -0.38 | -0.66 | -0.56 | 0.14 |
| Hurst, Kevin R. | 1.02 | -0.45 | -0.20 | 0.20 | 1.73 | -0.30 | -0.06 |
| Lowsky, John | -0.39 | 0.80 | 0.73 | 0.94 | -0.53 | 0.88 | -0.90 |
| Potocar, William P | -0.11 | 0.80 | -0.82 | -1.37 | -0.75 | -1.44 | -0.90 |
| Swanson, Dennis | -1.93 | 1.22 | 1.07 | 0.61 | 0.41 | -0.89 | -0.65 |
| Viera, Ralph B. | 1.02 | -0.59 | 1.43 | 1.35 | -0.11 | 1.65 | 0.04 |
| MAXIMUM | -1.93 | -1.57 | 1.43 | -1.37 | 1.73 | 1.65 | 2.21 |
| MINIMUM | 0.04 | -0.45 | 0.05 | 0.03 | -0.11 | 0.22 | 0.04 |
| RANGE(MAX-MIN) | -1.965 | -1.116 | 1.384 | -1.400 | 1.835 | 1.436 | 2.170 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= P1-8 - SEQUENCE V PISTONS

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Adams, Patrick | 9.06 | 8.90 | 8.20 | 8.26 | 8.90 | 8.70 | 8.28 | 8.23 |
| Barrera, Tony | 8.74 | 8.67 | 8.52 | 8.27 | 8.76 | 8.53 | 8.20 | 8.43 |
| Cales, Jonathon | 8.94 | 8.90 | 8.66 | 8.42 | 8.80 | 8.64 | 8.54 | 8.48 |
| Hurst, Kevin R. | 9.35 | 9.39 | 9.32 | 9.13 | 9.35 | 9.14 | 9.11 | 9.14 |
| Kraemer, Vernon | 8.68 | 8.68 | 8.52 | 8.39 | 8.77 | 8.54 | 8.37 | 8.34 |
| Lonsway, Chris | 9.14 | 8.99 | 8.40 | 8.29 | 8.96 | 8.57 | 8.21 | 8.19 |
| Lopez, Frank | 9.13 | 8.90 | 8.45 | 8.25 | 9.10 | 8.57 | 7.71 | 8.11 |
| Lowsky, John | 9.15 | 9.41 | 9.33 | 9.23 | 9.56 | 9.28 | 9.31 | 9.43 |
| Potocar, William P | 8.86 | 8.90 | 8.50 | 8.32 | 8.84 | 8.53 | 8.24 | 8.23 |
| Seiz, Ray | 9.25 | 9.24 | 9.08 | 8.79 | 9.37 | 9.30 | 9.02 | 9.25 |
| Swanson, Dennis | 8.92 | 8.73 | 8.87 | 8.67 | 8.93 | 8.53 | 8.66 | 8.56 |
| Trevino, Bobby | 8.69 | 8.68 | 8.40 | 8.33 | 8.78 | 8.54 | 8.24 | 8.30 |
| Veiga, Victor | 9.41 | 9.31 | 9.21 | 9.15 | 9.58 | 9.39 | 9.38 | 9.10 |
| Zalewski, John | 9.16 | 9.18 | 8.99 | 8.77 | 9.15 | 8.77 | 8.91 | 8.95 |
| MAXIMUM | 9.41 | 9.41 | 9.33 | 9.23 | 9.58 | 9.39 | 9.38 | 9.43 |
| MINIMUM | 8.68 | 8.67 | 8.20 | 8.25 | 8.76 | 8.53 | 7.71 | 8.11 |
| RANGE(MAX-MIN) | 0.730 | 0.740 | 1.130 | 0.980 | 0.820 | 0.860 | 1.670 | 1.320 |
| MEAN | 9.034 | 8.991 | 8.746 | 8.591 | 9.061 | 8.788 | 8.584 | 8.624 |
| STANDARD DEVIATION | 0.235 | 0.268 | 0.379 | 0.364 | 0.295 | 0.333 | 0.494 | 0.452 |

Part ID= P1-8 - SEQUENCE V PISTONS

P1-8 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Adams, Patrick | 0.11 | -0.34 | -1.44 | -0.91 | -0.54 | -0.26 | -0.62 | -0.87 |
| Barrera, Tony | -1.25 | -1.20 | -0.60 | -0.88 | -1.02 | -0.78 | -0.78 | -0.43 |
| Cales, Jonathon | -0.40 | -0.34 | -0.23 | -0.47 | -0.88 | -0.44 | -0.09 | -0.32 |
| Hurst, Kevin R. | 1.34 | 1.49 | 1.51 | 1.48 | 0.98 | 1.06 | 1.07 | 1.14 |
| Kraemer, Vernon | -1.50 | -1.16 | -0.60 | -0.55 | -0.99 | -0.75 | -0.43 | -0.63 |
| Lonsway, Chris | 0.45 | -0.01 | -0.91 | -0.83 | -0.34 | -0.66 | -0.76 | -0.96 |
| Lopez, Frank | 0.41 | -0.34 | -0.78 | -0.94 | 0.13 | -0.66 | -1.77 | -1.14 |
| Lowsky, John | 0.49 | 1.56 | 1.54 | 1.76 | 1.69 | 1.48 | 1.47 | 1.78 |
| Potocar, William P | -0.74 | -0.34 | -0.65 | -0.74 | -0.75 | -0.78 | -0.70 | -0.87 |
| Seiz, Ray | 0.92 | 0.93 | 0.88 | 0.55 | 1.05 | 1.54 | 0.88 | 1.39 |
| Swanson, Dennis | -0.49 | -0.98 | 0.33 | 0.22 | -0.44 | -0.78 | 0.15 | -0.14 |
| Trevino, Bobby | -1.46 | -1.16 | -0.91 | -0.72 | -0.95 | -0.75 | -0.70 | -0.72 |
| Veiga, Victor | 1.60 | 1.19 | 1.22 | 1.54 | 1.76 | 1.81 | 1.61 | 1.05 |
| Zalewski, John | 0.53 | 0.70 | 0.64 | 0.49 | 0.30 | -0.05 | 0.66 | 0.72 |
| MAXIMUM | 1.60 | 1.56 | 1.54 | 1.76 | 1.76 | 1.81 | -1.77 | 1.78 |
| MINIMUM | 0.11 | -0.01 | -0.23 | 0.22 | 0.13 | -0.05 | -0.09 | -0.14 |
| RANGE(MAX-MIN) | 1.487 | 1.569 | 1.768 | 1.540 | 1.627 | 1.864 | -1.682 | 1.926 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= Q1-8 - SEQUENCE V PISTONS

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| Adams, Patrick | 9.80 | 9.74 | 9.50 | 9.46 | 9.60 | 9.60 | 9.45 | 9.43 | |
| Aguirre, Nancy P | 9.72 | 9.51 | 9.46 | 9.44 | 9.51 | 9.44 | 9.45 | 9.45 | |
| Cales, Jonathon | 9.80 | 9.65 | 9.50 | 9.44 | 9.70 | 9.68 | 9.50 | 9.60 | |
| Caproni, David | 9.80 | 9.60 | 9.30 | 9.30 | 9.70 | 9.70 | 9.18 | 9.40 | |
| Greenland, Paul | 9.80 | 9.70 | 9.60 | 9.43 | 9.70 | 9.60 | 9.52 | 9.60 | |
| Grundza, Richard | 9.70 | 9.50 | 9.30 | 9.20 | 9.70 | 9.60 | 9.40 | 9.50 | |
| Hurst, Kevin R. | 9.85 | 9.70 | 9.56 | 9.60 | 9.80 | 9.75 | 9.64 | 9.70 | |
| Kraemer, Vernon | 9.49 | 9.56 | 9.42 | 9.39 | 9.55 | 9.36 | 9.39 | 9.45 | |
| Lonsway, Chris | 9.85 | 9.70 | 9.51 | 9.36 | 9.80 | 9.80 | 9.53 | 9.61 | |
| Lowsky, John | 9.85 | 9.80 | 9.76 | 9.78 | 9.85 | 9.77 | 9.67 | 9.82 | |
| Potocar, William P | 9.69 | 9.66 | 9.46 | 9.36 | 9.53 | 9.57 | 9.51 | 9.41 | |
| Rodriguez, Jesus (Jesse) | 9.70 | 9.74 | 9.50 | 9.56 | 9.72 | 9.59 | 9.46 | 9.52 | |
| Seiz, Ray | 9.85 | 9.75 | 9.64 | 9.65 | 9.78 | 9.72 | 9.65 | 9.77 | |
| Trevino, Bobby | 9.73 | 9.58 | 9.47 | 9.35 | 9.61 | 9.53 | 9.44 | 9.46 | |
| Veiga, Victor | 9.80 | 9.62 | 9.65 | 9.68 | 9.74 | 9.71 | 9.72 | 9.76 | |
| MAXIMUM | 9.85 | 9.80 | 9.76 | 9.78 | 9.85 | 9.80 | 9.72 | 9.82 | |
| MINIMUM | 9.49 | 9.50 | 9.30 | 9.20 | 9.51 | 9.36 | 9.18 | 9.40 | |
| RANGE(MAX-MIN) | 0.360 | 0.300 | 0.460 | 0.580 | 0.340 | 0.440 | 0.540 | 0.420 | |
| MEAN | 9.762 | 9.654 | 9.509 | 9.467 | 9.686 | 9.628 | 9.501 | 9.565 | |
| STANDARD DEVIATION | 0.096 | 0.090 | 0.123 | 0.158 | 0.105 | 0.123 | 0.135 | 0.142 | |

Part ID= Q1-8 - SEQUENCE V PISTONS

Q1-8 Yi Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| Adams, Patrick | 0.40 | 0.95 | -0.07 | -0.04 | -0.82 | -0.23 | -0.38 | -0.96 | |
| Aguirre, Nancy P | -0.44 | -1.59 | -0.39 | -0.17 | -1.68 | -1.53 | -0.38 | -0.81 | |
| Cales, Jonathon | 0.40 | -0.04 | -0.07 | -0.17 | 0.13 | 0.42 | 0.00 | 0.24 | |
| Caproni, David | 0.40 | -0.60 | -1.69 | -1.06 | 0.13 | 0.59 | -2.37 | -1.17 | |
| Greenland, Paul | 0.40 | 0.51 | 0.74 | -0.23 | 0.13 | -0.23 | 0.14 | 0.24 | |
| Grundza, Richard | -0.65 | -1.70 | -1.69 | -1.69 | 0.13 | -0.23 | -0.75 | -0.46 | |
| Hurst, Kevin R. | 0.92 | 0.51 | 0.42 | 0.85 | 1.09 | 0.99 | 1.03 | 0.95 | |
| Kraemer, Vernon | -2.85 | -1.04 | -0.72 | -0.49 | -1.30 | -2.18 | -0.82 | -0.81 | |
| Lonsway, Chris | 0.92 | 0.51 | 0.01 | -0.68 | 1.09 | 1.40 | 0.22 | 0.32 | |
| Lowsky, John | 0.92 | 1.61 | 2.04 | 1.99 | 1.57 | 1.15 | 1.25 | 1.80 | |
| Potocar, William P | -0.75 | 0.07 | -0.39 | -0.68 | -1.49 | -0.47 | 0.07 | -1.10 | |
| Rodriguez, Jesus (Jesse) | -0.65 | 0.95 | -0.07 | 0.59 | 0.32 | -0.31 | -0.30 | -0.32 | |
| Seiz, Ray | 0.92 | 1.06 | 1.07 | 1.16 | 0.90 | 0.75 | 1.11 | 1.44 | |
| Trevino, Bobby | -0.33 | -0.82 | -0.31 | -0.74 | -0.73 | -0.80 | -0.45 | -0.74 | |
| Veiga, Victor | 0.40 | -0.38 | 1.15 | 1.35 | 0.52 | 0.67 | 1.62 | 1.37 | |
| MAXIMUM | -2.85 | -1.70 | 2.04 | 1.99 | -1.68 | -2.18 | -2.37 | 1.80 | |
| MINIMUM | -0.33 | -0.04 | 0.01 | -0.04 | 0.13 | -0.23 | 0.00 | 0.24 | |
| RANGE(MAX-MIN) | -2.512 | -1.658 | 2.028 | 2.030 | -1.814 | -1.952 | -2.369 | 1.553 | |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= R1-8 - SEQUENCE V PISTONS

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Aguirre, Nancy P | 8.69 | 8.57 | 8.49 | 8.45 | 8.66 | 8.54 | 8.44 | 8.44 |
| Avis, Steven | 9.03 | 9.02 | 8.96 | 9.01 | 9.35 | 9.10 | 9.08 | 9.10 |
| Barrera, Tony | 8.77 | 8.50 | 8.24 | 8.24 | 8.91 | 8.48 | 8.29 | 8.31 |
| Caproni, David | 8.79 | 8.70 | 8.64 | 8.64 | 9.09 | 8.85 | 8.74 | 8.76 |
| Castillo, George | 8.69 | 8.59 | 8.36 | 8.36 | 9.12 | 8.46 | 8.51 | 8.29 |
| Hills, Barry | 8.74 | 8.66 | 8.65 | 8.60 | 8.70 | 8.63 | 8.60 | 8.63 |
| Hurst, Kevin R. | 9.30 | 9.29 | 9.17 | 9.17 | 9.35 | 9.23 | 9.15 | 9.22 |
| Kraemer, Vernon | 8.84 | 8.60 | 8.62 | 8.34 | 9.01 | 8.80 | 8.48 | 8.36 |
| Lowsky, John | 9.50 | 9.49 | 9.35 | 9.24 | 9.60 | 9.47 | 9.41 | 9.43 |
| May, Marianne | 9.05 | 9.00 | 8.84 | 8.78 | 9.13 | 8.56 | 8.60 | 8.57 |
| Rodriguez, Jesus (Jesse) | 8.79 | 8.40 | 8.38 | 8.38 | 9.22 | 8.83 | 8.43 | 8.57 |
| Sanchez, Arthur | 8.99 | 8.91 | 8.83 | 8.88 | 9.38 | 9.08 | 8.84 | 8.97 |
| Veiga, Victor | 9.08 | 9.13 | 8.57 | 9.03 | 9.30 | 9.38 | 8.90 | 9.00 |
| Viera, Ralph B. | 8.98 | 8.63 | 8.43 | 8.18 | 9.28 | 8.54 | 8.39 | 8.79 |
| MAXIMUM | 9.50 | 9.49 | 9.35 | 9.24 | 9.60 | 9.47 | 9.41 | 9.43 |
| MINIMUM | 8.69 | 8.40 | 8.24 | 8.18 | 8.66 | 8.46 | 8.29 | 8.29 |
| RANGE(MAX-MIN) | 0.810 | 1.090 | 1.110 | 1.060 | 0.940 | 1.010 | 1.120 | 1.140 |
| MEAN | 8.946 | 8.821 | 8.681 | 8.664 | 9.150 | 8.854 | 8.704 | 8.746 |
| STANDARD DEVIATION | 0.238 | 0.324 | 0.318 | 0.356 | 0.264 | 0.344 | 0.331 | 0.356 |

Part ID= R1-8 - SEQUENCE V PISTONS

R1-8 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Aguirre, Nancy P | -1.08 | -0.77 | -0.60 | -0.60 | -1.86 | -0.91 | -0.80 | -0.86 |
| Avis, Steven | 0.35 | 0.62 | 0.88 | 0.97 | 0.76 | 0.72 | 1.14 | 0.99 |
| Barrera, Tony | -0.74 | -0.99 | -1.38 | -1.19 | -0.91 | -1.08 | -1.25 | -1.22 |
| Caproni, David | -0.65 | -0.37 | -0.13 | -0.07 | -0.23 | -0.01 | 0.11 | 0.04 |
| Castillo, George | -1.08 | -0.71 | -1.01 | -0.86 | -0.11 | -1.14 | -0.59 | -1.28 |
| Hills, Barry | -0.86 | -0.50 | -0.10 | -0.18 | -1.71 | -0.65 | -0.32 | -0.32 |
| Hurst, Kevin R. | 1.49 | 1.45 | 1.54 | 1.42 | 0.76 | 1.09 | 1.35 | 1.33 |
| Kraemer, Vernon | -0.44 | -0.68 | -0.19 | -0.91 | -0.53 | -0.16 | -0.68 | -1.08 |
| Lowsky, John | 2.33 | 2.07 | 2.10 | 1.62 | 1.71 | 1.79 | 2.13 | 1.92 |
| May, Marianne | 0.44 | 0.55 | 0.50 | 0.33 | -0.08 | -0.85 | -0.32 | -0.49 |
| Rodriguez, Jesus (Jesse) | -0.65 | -1.30 | -0.94 | -0.80 | 0.27 | -0.07 | -0.83 | -0.49 |
| Sanchez, Arthur | 0.19 | 0.28 | 0.47 | 0.61 | 0.87 | 0.66 | 0.41 | 0.63 |
| Veiga, Victor | 0.56 | 0.95 | -0.35 | 1.03 | 0.57 | 1.53 | 0.59 | 0.71 |
| Viera, Ralph B. | 0.14 | -0.59 | -0.79 | -1.36 | 0.49 | -0.91 | -0.95 | 0.12 |
| MAXIMUM | 2.33 | 2.07 | 2.10 | 1.62 | -1.86 | 1.79 | 2.13 | 1.92 |
| MINIMUM | 0.14 | 0.28 | -0.10 | -0.07 | -0.08 | -0.01 | 0.11 | 0.04 |
| RANGE(MAX-MIN) | 2.186 | 1.790 | 2.198 | 1.687 | -1.782 | 1.801 | 2.026 | 1.880 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= S1-8 - SEQUENCE V PISTONS

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Avis, Steven | 8.60 | 8.51 | 8.50 | 8.45 | 8.82 | 8.53 | 8.59 | 8.50 |
| Barrera, Tony | 8.54 | 8.17 | 8.29 | 8.04 | 8.62 | 8.40 | 8.10 | 8.24 |
| Castillo, George | 8.30 | 8.28 | 8.14 | 7.75 | 8.11 | 8.20 | 8.00 | 8.21 |
| Hills, Barry | 8.65 | 8.71 | 8.66 | 8.60 | 8.66 | 8.50 | 8.50 | 8.53 |
| Hurst, Kevin R. | 9.02 | 9.05 | 8.88 | 8.83 | 9.07 | 9.02 | 8.95 | 8.93 |
| Kraemer, Vernon | 8.48 | 8.29 | 8.29 | 8.26 | 8.45 | 8.45 | 8.29 | 8.36 |
| Lopez, Frank | 8.35 | 8.47 | 8.45 | 7.92 | 8.82 | 8.56 | 8.17 | 8.21 |
| May, Marianne | 8.95 | 8.52 | 8.69 | 8.49 | 9.02 | 8.85 | 8.71 | 8.69 |
| Sanchez, Arthur | 8.83 | 8.76 | 8.33 | 8.69 | 9.07 | 8.88 | 8.49 | 8.65 |
| Seiz, Ray | 9.15 | 9.09 | 8.96 | 8.35 | 9.13 | 9.01 | 8.70 | 8.70 |
| Swanson, Dennis | 8.30 | 8.36 | 8.25 | 8.00 | 8.19 | 8.09 | 8.08 | 8.16 |
| Trevino, Bobby | 8.59 | 8.41 | 8.24 | 8.10 | 8.50 | 8.48 | 8.22 | 8.34 |
| Veiga, Victor | 8.93 | 9.27 | 8.97 | 9.07 | 9.31 | 9.05 | 9.21 | 9.00 |
| Viera, Ralph B. | 8.28 | 8.53 | 8.22 | 7.70 | 8.95 | 8.36 | 8.15 | 8.31 |
| Zalewski, John | 9.04 | 8.92 | 9.02 | 8.93 | 9.16 | 8.98 | 8.90 | 8.97 |
| MAXIMUM | 9.15 | 9.27 | 9.02 | 9.07 | 9.31 | 9.05 | 9.21 | 9.00 |
| MINIMUM | 8.28 | 8.17 | 8.14 | 7.70 | 8.11 | 8.09 | 8.00 | 8.16 |
| RANGE(MAX-MIN) | 0.870 | 1.100 | 0.880 | 1.370 | 1.200 | 0.960 | 1.210 | 0.840 |
| MEAN | 8.667 | 8.623 | 8.526 | 8.345 | 8.792 | 8.624 | 8.471 | 8.520 |
| STANDARD DEVIATION | 0.299 | 0.331 | 0.311 | 0.427 | 0.361 | 0.316 | 0.367 | 0.291 |

Part ID= S1-8 - SEQUENCE V PISTONS

S1-8 Yi Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Avis, Steven | -0.23 | -0.34 | -0.08 | 0.25 | 0.08 | -0.30 | 0.33 | -0.07 |
| Barrera, Tony | -0.43 | -1.37 | -0.76 | -0.72 | -0.48 | -0.71 | -1.01 | -0.96 |
| Castillo, George | -1.23 | -1.03 | -1.24 | -1.40 | -1.89 | -1.34 | -1.28 | -1.07 |
| Hills, Barry | -0.06 | 0.26 | 0.43 | 0.60 | -0.37 | -0.39 | 0.08 | 0.03 |
| Hurst, Kevin R. | 1.18 | 1.29 | 1.14 | 1.14 | 0.77 | 1.25 | 1.31 | 1.41 |
| Kraemer, Vernon | -0.63 | -1.00 | -0.76 | -0.20 | -0.95 | -0.55 | -0.49 | -0.55 |
| Lopez, Frank | -1.06 | -0.46 | -0.24 | -1.00 | 0.08 | -0.20 | -0.82 | -1.07 |
| May, Marianne | 0.94 | -0.31 | 0.53 | 0.34 | 0.63 | 0.72 | 0.65 | 0.59 |
| Sanchez, Arthur | 0.54 | 0.41 | -0.63 | 0.81 | 0.77 | 0.81 | 0.05 | 0.45 |
| Seiz, Ray | 1.61 | 1.41 | 1.39 | 0.01 | 0.94 | 1.22 | 0.62 | 0.62 |
| Swanson, Dennis | -1.23 | -0.79 | -0.89 | -0.81 | -1.67 | -1.69 | -1.06 | -1.24 |
| Trevino, Bobby | -0.26 | -0.64 | -0.92 | -0.57 | -0.81 | -0.46 | -0.68 | -0.62 |
| Veiga, Victor | 0.88 | 1.95 | 1.43 | 1.70 | 1.43 | 1.35 | 2.01 | 1.65 |
| Viera, Ralph B. | -1.29 | -0.28 | -0.98 | -1.51 | 0.44 | -0.84 | -0.87 | -0.72 |
| Zalewski, John | 1.25 | 0.90 | 1.59 | 1.37 | 1.02 | 1.13 | 1.17 | 1.55 |
| MAXIMUM | 1.61 | 1.95 | 1.59 | 1.70 | -1.89 | -1.69 | 2.01 | 1.65 |
| MINIMUM | -0.06 | 0.26 | -0.08 | 0.01 | 0.08 | -0.20 | 0.05 | 0.03 |
| RANGE(MAX-MIN) | 1.670 | 1.690 | 1.671 | 1.687 | -1.965 | -1.489 | 1.962 | 1.618 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VRCBVL - VG RC BAFFLE VARNISH L

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | AVERAG | |
|--------------------------|--------|--|
| Adams, Patrick | 9.61 | |
| Aguirre, Nancy P | 9.59 | |
| Avis, Steven | 9.75 | |
| Barrera, Tony | 9.62 | |
| Cales, Jonathon | 9.47 | |
| Campbell, Bryan | 9.64 | |
| Caproni, David | 9.69 | |
| Castillo, George | 9.53 | |
| Cumberworth, Lee | 9.60 | |
| Foecking, Brian | 9.49 | |
| Hills, Barry | 9.77 | |
| Hurst, Kevin R. | 9.64 | |
| Kraemer, Vernon | 9.59 | |
| Lonsway, Chris | 9.77 | |
| Lopez, Frank | 9.64 | |
| Lowsky, John | 9.69 | |
| May, Marianne | 9.65 | |
| Millward, Glen | 9.64 | |
| Potocar, William P | 9.67 | |
| Rodriguez, Jesus (Jesse) | 9.67 | |
| Sanchez, Arthur | 9.70 | |
| Seiz, Ray | 9.45 | |
| Terrado, Ken | 9.68 | |
| Trevino, Bobby | 9.64 | |
| Veiga, Victor | 9.60 | |
| Viera, Ralph B. | 9.67 | |
| Zalewski, John | 9.58 | |
| MAXIMUM | 9.77 | |
| MINIMUM | 9.45 | |
| RANGE(MAX-MIN) | 0.320 | |
| MEAN | 9.631 | |
| STANDARD DEVIATION | 0.081 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VRCBVL - VG RC BAFFLE VARNISH L

VRCBVL Yi Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | AVERAG | |
|--------------------------|--------|--|
| Adams, Patrick | -0.26 | |
| Aguirre, Nancy P | -0.51 | |
| Avis, Steven | 1.47 | |
| Barrera, Tony | -0.14 | |
| Cales, Jonathon | -2.00 | |
| Campbell, Bryan | 0.11 | |
| Caproni, David | 0.73 | |
| Castillo, George | -1.25 | |
| Cumberworth, Lee | -0.39 | |
| Foecking, Brian | -1.75 | |
| Hills, Barry | 1.72 | |
| Hurst, Kevin R. | 0.11 | |
| Kraemer, Vernon | -0.51 | |
| Lonsway, Chris | 1.72 | |
| Lopez, Frank | 0.11 | |
| Lowsky, John | 0.73 | |
| May, Marianne | 0.23 | |
| Millward, Glen | 0.11 | |
| Potocar, William P | 0.48 | |
| Rodriguez, Jesus (Jesse) | 0.48 | |
| Sanchez, Arthur | 0.85 | |
| Seiz, Ray | -2.24 | |
| Terrado, Ken | 0.61 | |
| Trevino, Bobby | 0.11 | |
| Veiga, Victor | -0.39 | |
| Viera, Ralph B. | 0.48 | |
| Zalewski, John | -0.63 | |
| MAXIMUM | -2.24 | |
| MINIMUM | 0.11 | |
| RANGE(MAX-MIN) | -2.353 | |
| MEAN | 0.000 | |
| STANDARD DEVIATION | 1.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VRCBVR - VG RC BAFFLE VARNISH R

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | AVERAG | |
|--------------------------|--------|--|
| Adams, Patrick | 9.70 | |
| Aguirre, Nancy P | 9.66 | |
| Avis, Steven | 9.83 | |
| Barrera, Tony | 9.70 | |
| Cales, Jonathon | 9.80 | |
| Campbell, Bryan | 9.65 | |
| Caproni, David | 9.70 | |
| Castillo, George | 9.58 | |
| Cumberworth, Lee | 9.80 | |
| Foecking, Brian | 9.70 | |
| Hills, Barry | 9.80 | |
| Hurst, Kevin R. | 9.73 | |
| Kraemer, Vernon | 9.70 | |
| Lonsway, Chris | 9.83 | |
| Lopez, Frank | 9.80 | |
| Lowsky, John | 9.77 | |
| May, Marianne | 9.70 | |
| Millward, Glen | 9.77 | |
| Potocar, William P | 9.85 | |
| Rodriguez, Jesus (Jesse) | 9.90 | |
| Sanchez, Arthur | 9.65 | |
| Seiz, Ray | 9.42 | |
| Trevino, Bobby | 9.70 | |
| Veiga, Victor | 9.57 | |
| Viera, Ralph B. | 9.69 | |
| Zalewski, John | 9.70 | |
| MAXIMUM | 9.90 | |
| MINIMUM | 9.42 | |
| RANGE(MAX-MIN) | 0.480 | |
| MEAN | 9.719 | |
| STANDARD DEVIATION | 0.101 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VRCBVR - VG RC BAFFLE VARNISH R

VRCBVR Yi Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | AVERAG | |
|--------------------------|--------|--|
| Adams, Patrick | -0.19 | |
| Aguirre, Nancy P | -0.59 | |
| Avis, Steven | 1.10 | |
| Barrera, Tony | -0.19 | |
| Cales, Jonathon | 0.80 | |
| Campbell, Bryan | -0.69 | |
| Caproni, David | -0.19 | |
| Castillo, George | -1.38 | |
| Cumberworth, Lee | 0.80 | |
| Foecking, Brian | -0.19 | |
| Hills, Barry | 0.80 | |
| Hurst, Kevin R. | 0.11 | |
| Kraemer, Vernon | -0.19 | |
| Lonsway, Chris | 1.10 | |
| Lopez, Frank | 0.80 | |
| Lowsky, John | 0.50 | |
| May, Marianne | -0.19 | |
| Millward, Glen | 0.50 | |
| Potocar, William P | 1.30 | |
| Rodriguez, Jesus (Jesse) | 1.79 | |
| Sanchez, Arthur | -0.69 | |
| Seiz, Ray | -2.97 | |
| Trevino, Bobby | -0.19 | |
| Veiga, Victor | -1.48 | |
| Viera, Ralph B. | -0.29 | |
| Zalewski, John | -0.19 | |
| MAXIMUM | -2.97 | |
| MINIMUM | 0.11 | |
| RANGE(MAX-MIN) | -3.077 | |
| MEAN | 0.000 | |
| STANDARD DEVIATION | 1.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= I1-8 - INTAKE VALVE SET

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Adams, Patrick | 9.20 | 9.10 | 9.00 | 8.90 | 9.30 | 8.60 | 8.50 | 9.00 |
| Barrera, Tony | 9.30 | 9.00 | 8.20 | 7.20 | 9.40 | 9.00 | 8.90 | 8.80 |
| Campbell, Bryan | 9.60 | 9.50 | 8.40 | 8.10 | 9.30 | 9.60 | 9.60 | 8.75 |
| Castillo, George | 9.30 | 9.40 | 7.80 | 7.00 | 9.30 | 9.40 | 9.40 | 8.10 |
| Foecking, Brian | 9.70 | 9.60 | 7.70 | 7.20 | 9.20 | 9.50 | 9.60 | 8.40 |
| Lopez, Frank | 9.60 | 9.50 | 7.90 | 7.40 | 9.20 | 9.50 | 9.60 | 8.80 |
| Lowsky, John | 9.70 | 9.45 | 8.65 | 7.70 | 9.35 | 9.45 | 9.50 | 8.85 |
| Millward, Glen | 9.60 | 9.40 | 8.30 | 7.80 | 9.20 | 9.30 | 9.50 | 8.60 |
| Rodriguez, Jesus (Jesse) | 9.60 | 9.50 | 7.90 | 7.50 | 9.30 | 9.60 | 9.60 | 8.20 |
| Sanchez, Arthur | 9.70 | 9.70 | 8.00 | 7.00 | 9.20 | 9.70 | 9.60 | 8.30 |
| Seiz, Ray | 9.40 | 9.30 | 8.40 | 8.30 | 9.30 | 9.20 | 9.40 | 8.70 |
| Viera, Ralph B. | 9.00 | 9.10 | 8.50 | 8.30 | 9.40 | 8.90 | 9.00 | 8.70 |
| Zalewski, John | 9.70 | 9.50 | 8.70 | 8.50 | 9.40 | 9.60 | 9.50 | 9.10 |
| MAXIMUM | 9.70 | 9.70 | 9.00 | 8.90 | 9.40 | 9.70 | 9.60 | 9.10 |
| MINIMUM | 9.00 | 9.00 | 7.70 | 7.00 | 9.20 | 8.60 | 8.50 | 8.10 |
| RANGE(MAX-MIN) | 0.700 | 0.700 | 1.300 | 1.900 | 0.200 | 1.100 | 1.100 | 1.000 |
| MEAN | 9.492 | 9.388 | 8.265 | 7.762 | 9.296 | 9.335 | 9.362 | 8.638 |
| STANDARD DEVIATION | 0.229 | 0.208 | 0.392 | 0.614 | 0.078 | 0.326 | 0.345 | 0.305 |

Part ID= I1-8 - INTAKE VALVE SET

I1-8 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|--------------------------|--------|--------|-------|-------|-------|--------|--------|--------|
| Adams, Patrick | -1.28 | -1.38 | 1.87 | 1.85 | 0.05 | -2.25 | -2.50 | 1.19 |
| Barrera, Tony | -0.84 | -1.86 | -0.17 | -0.91 | 1.34 | -1.03 | -1.34 | 0.53 |
| Campbell, Bryan | 0.47 | 0.54 | 0.34 | 0.55 | 0.05 | 0.81 | 0.69 | 0.37 |
| Castillo, George | -0.84 | 0.06 | -1.19 | -1.24 | 0.05 | 0.20 | 0.11 | -1.77 |
| Foecking, Brian | 0.91 | 1.02 | -1.44 | -0.91 | -1.24 | 0.51 | 0.69 | -0.78 |
| Lopez, Frank | 0.47 | 0.54 | -0.93 | -0.59 | -1.24 | 0.51 | 0.69 | 0.53 |
| Lowsky, John | 0.91 | 0.30 | 0.98 | -0.10 | 0.69 | 0.35 | 0.40 | 0.69 |
| Millward, Glen | 0.47 | 0.06 | 0.09 | 0.06 | -1.24 | -0.11 | 0.40 | -0.13 |
| Rodriguez, Jesus (Jesse) | 0.47 | 0.54 | -0.93 | -0.43 | 0.05 | 0.81 | 0.69 | -1.44 |
| Sanchez, Arthur | 0.91 | 1.50 | -0.68 | -1.24 | -1.24 | 1.12 | 0.69 | -1.11 |
| Seiz, Ray | -0.40 | -0.42 | 0.34 | 0.88 | 0.05 | -0.41 | 0.11 | 0.20 |
| Viera, Ralph B. | -2.15 | -1.38 | 0.60 | 0.88 | 1.34 | -1.33 | -1.05 | 0.20 |
| Zalewski, John | 0.91 | 0.54 | 1.11 | 1.20 | 1.34 | 0.81 | 0.40 | 1.51 |
| MAXIMUM | -2.15 | -1.86 | 1.87 | 1.85 | 1.34 | -2.25 | -2.50 | -1.77 |
| MINIMUM | -0.40 | 0.06 | 0.09 | 0.06 | 0.05 | -0.11 | 0.11 | -0.13 |
| RANGE(MAX-MIN) | -1.747 | -1.920 | 1.784 | 1.790 | 1.288 | -2.146 | -2.607 | -1.640 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= J1-8 - INTAKE VALVE SET

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Adams, Patrick | 9.10 | 9.00 | 9.20 | 9.30 | 9.30 | 8.60 | 9.10 | 9.30 |
| Barrera, Tony | 9.30 | 8.90 | 9.10 | 8.50 | 9.00 | 8.90 | 8.80 | 9.30 |
| Campbell, Bryan | 9.70 | 9.30 | 9.20 | 8.10 | 9.30 | 9.60 | 9.60 | 8.75 |
| Castillo, George | 9.60 | 9.00 | 9.00 | 7.70 | 8.90 | 9.40 | 9.20 | 8.90 |
| Cumberworth, Lee | 9.58 | 8.58 | 8.95 | 8.73 | 8.70 | 8.92 | 9.03 | 8.92 |
| Foecking, Brian | 9.70 | 8.70 | 9.20 | 8.30 | 8.80 | 9.60 | 9.30 | 9.10 |
| Kobrinetz, Joaquin J. | 9.70 | 8.20 | 8.80 | 8.34 | 8.61 | 8.92 | 8.89 | 8.79 |
| Lopez, Frank | 9.60 | 8.40 | 9.10 | 8.60 | 9.10 | 9.50 | 8.80 | 9.20 |
| Lowsky, John | 9.75 | 8.70 | 9.43 | 8.95 | 9.45 | 9.55 | 9.60 | 9.45 |
| May, Marianne | 9.70 | 8.60 | 9.00 | 8.20 | 8.70 | 9.10 | 9.00 | 8.90 |
| Millward, Glen | 9.60 | 8.80 | 9.00 | 8.60 | 8.90 | 9.30 | 9.40 | 8.80 |
| Rodriguez, Jesus (Jesse) | 9.60 | 8.30 | 9.10 | 8.00 | 8.50 | 9.20 | 8.90 | 9.10 |
| Sanchez, Arthur | 9.70 | 9.10 | 9.00 | 8.00 | 8.50 | 9.70 | 9.10 | 9.10 |
| Seiz, Ray | 9.60 | 9.10 | 9.20 | 9.00 | 9.10 | 9.40 | 9.30 | 9.20 |
| Viera, Ralph B. | 9.30 | 9.00 | 9.10 | 8.70 | 9.00 | 9.20 | 9.10 | 9.00 |
| Zalewski, John | 9.80 | 8.70 | 9.30 | 9.00 | 9.10 | 9.50 | 9.20 | 9.20 |
| MAXIMUM | 9.80 | 9.30 | 9.43 | 9.30 | 9.45 | 9.70 | 9.60 | 9.45 |
| MINIMUM | 9.10 | 8.20 | 8.80 | 7.70 | 8.50 | 8.60 | 8.80 | 8.75 |
| RANGE(MAX-MIN) | 0.700 | 1.100 | 0.630 | 1.600 | 0.950 | 1.100 | 0.800 | 0.700 |
| MEAN | 9.583 | 8.774 | 9.105 | 8.501 | 8.935 | 9.274 | 9.145 | 9.063 |
| STANDARD DEVIATION | 0.189 | 0.310 | 0.151 | 0.441 | 0.287 | 0.315 | 0.250 | 0.207 |

Part ID= J1-8 - INTAKE VALVE SET

J1-8 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|--------------------------|--------|--------|-------|--------|-------|--------|-------|-------|
| Adams, Patrick | -2.55 | 0.73 | 0.63 | 1.81 | 1.27 | -2.14 | -0.18 | 1.15 |
| Barrera, Tony | -1.49 | 0.41 | -0.03 | 0.00 | 0.23 | -1.19 | -1.38 | 1.15 |
| Campbell, Bryan | 0.62 | 1.70 | 0.63 | -0.91 | 1.27 | 1.03 | 1.82 | -1.51 |
| Castillo, George | 0.09 | 0.73 | -0.70 | -1.82 | -0.12 | 0.40 | 0.22 | -0.79 |
| Cumberworth, Lee | -0.02 | -0.63 | -1.03 | 0.52 | -0.82 | -1.12 | -0.46 | -0.69 |
| Foecking, Brian | 0.62 | -0.24 | 0.63 | -0.46 | -0.47 | 1.03 | 0.62 | 0.18 |
| Kobrinetz, Joaquin J. | 0.62 | -1.85 | -2.02 | -0.37 | -1.13 | -1.12 | -1.02 | -1.32 |
| Lopez, Frank | 0.09 | -1.21 | -0.03 | 0.22 | 0.57 | 0.72 | -1.38 | 0.66 |
| Lowsky, John | 0.88 | -0.24 | 2.16 | 1.02 | 1.79 | 0.87 | 1.82 | 1.87 |
| May, Marianne | 0.62 | -0.56 | -0.70 | -0.68 | -0.82 | -0.55 | -0.58 | -0.79 |
| Millward, Glen | 0.09 | 0.08 | -0.70 | 0.22 | -0.12 | 0.08 | 1.02 | -1.27 |
| Rodriguez, Jesus (Jesse) | 0.09 | -1.53 | -0.03 | -1.14 | -1.51 | -0.24 | -0.98 | 0.18 |
| Sanchez, Arthur | 0.62 | 1.05 | -0.70 | -1.14 | -1.51 | 1.35 | -0.18 | 0.18 |
| Seiz, Ray | 0.09 | 1.05 | 0.63 | 1.13 | 0.57 | 0.40 | 0.62 | 0.66 |
| Viera, Ralph B. | -1.49 | 0.73 | -0.03 | 0.45 | 0.23 | -0.24 | -0.18 | -0.31 |
| Zalewski, John | 1.14 | -0.24 | 1.29 | 1.13 | 0.57 | 0.72 | 0.22 | 0.66 |
| MAXIMUM | -2.55 | -1.85 | 2.16 | -1.82 | 1.79 | -2.14 | 1.82 | 1.87 |
| MINIMUM | -0.02 | 0.08 | -0.03 | 0.00 | -0.12 | 0.08 | -0.18 | 0.18 |
| RANGE(MAX-MIN) | -2.534 | -1.938 | 2.189 | -1.816 | 1.915 | -2.220 | 2.001 | 1.692 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= K1-8 - INTAKE VALVE SET

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Adams, Patrick | 8.30 | 9.30 | 9.20 | 9.20 | 9.40 | 8.50 | 9.50 | 9.10 |
| Campbell, Bryan | 9.70 | 9.75 | 9.10 | 8.50 | 9.60 | 9.75 | 9.80 | 8.90 |
| Castillo, George | 9.60 | 9.50 | 8.70 | 7.10 | 9.60 | 9.50 | 9.60 | 7.40 |
| Foecking, Brian | 9.50 | 9.60 | 8.60 | 8.00 | 9.60 | 9.60 | 9.70 | 8.70 |
| Kobrinetz, Joaquin J. | 9.90 | 9.40 | 8.40 | 8.10 | 9.50 | 8.80 | 9.40 | 8.20 |
| Lopez, Frank | 9.70 | 9.60 | 9.00 | 8.40 | 9.60 | 9.40 | 9.70 | 8.70 |
| Lowsky, John | 9.70 | 9.40 | 9.23 | 8.40 | 9.60 | 9.30 | 9.55 | 8.75 |
| May, Marianne | 9.70 | 9.30 | 8.40 | 8.00 | 9.40 | 8.60 | 9.30 | 8.20 |
| Millward, Glen | 9.70 | 9.70 | 9.10 | 8.20 | 9.50 | 9.20 | 9.70 | 8.50 |
| Rodriguez, Jesus (Jesse) | 9.60 | 9.60 | 8.30 | 7.90 | 9.70 | 8.70 | 9.50 | 8.00 |
| Sanchez, Arthur | 9.30 | 9.50 | 9.00 | 7.80 | 9.60 | 9.60 | 9.60 | 7.80 |
| Seiz, Ray | 9.60 | 9.30 | 9.00 | 8.70 | 9.70 | 9.20 | 9.60 | 8.80 |
| Viera, Ralph B. | 9.30 | 9.20 | 9.00 | 8.50 | 9.30 | 9.10 | 9.40 | 8.90 |
| Zalewski, John | 9.60 | 9.50 | 9.10 | 8.50 | 9.60 | 9.10 | 9.60 | 8.70 |
| MAXIMUM | 9.90 | 9.75 | 9.23 | 9.20 | 9.70 | 9.75 | 9.80 | 9.10 |
| MINIMUM | 8.30 | 9.20 | 8.30 | 7.10 | 9.30 | 8.50 | 9.30 | 7.40 |
| RANGE(MAX-MIN) | 1.600 | 0.550 | 0.930 | 2.100 | 0.400 | 1.250 | 0.500 | 1.700 |
| MEAN | 9.514 | 9.475 | 8.866 | 8.236 | 9.550 | 9.168 | 9.568 | 8.475 |
| STANDARD DEVIATION | 0.384 | 0.165 | 0.320 | 0.491 | 0.116 | 0.395 | 0.138 | 0.486 |

Part ID= K1-8 - INTAKE VALVE SET

K1-8 Y1 Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|--------------------------|--------|-------|--------|--------|--------|--------|--------|--------|
| Adams, Patrick | -3.16 | -1.06 | 1.04 | 1.96 | -1.29 | -1.69 | -0.49 | 1.29 |
| Campbell, Bryan | 0.48 | 1.67 | 0.73 | 0.54 | 0.43 | 1.47 | 1.68 | 0.87 |
| Castillo, George | 0.22 | 0.15 | -0.52 | -2.31 | 0.43 | 0.84 | 0.23 | -2.21 |
| Foecking, Brian | -0.04 | 0.76 | -0.83 | -0.48 | 0.43 | 1.09 | 0.96 | 0.46 |
| Kobrinetz, Joaquin J. | 1.00 | -0.45 | -1.46 | -0.28 | -0.43 | -0.93 | -1.22 | -0.57 |
| Lopez, Frank | 0.48 | 0.76 | 0.42 | 0.33 | 0.43 | 0.59 | 0.96 | 0.46 |
| Lowsky, John | 0.48 | -0.45 | 1.14 | 0.33 | 0.43 | 0.33 | -0.13 | 0.57 |
| May, Marianne | 0.48 | -1.06 | -1.46 | -0.48 | -1.29 | -1.44 | -1.94 | -0.57 |
| Millward, Glen | 0.48 | 1.36 | 0.73 | -0.07 | -0.43 | 0.08 | 0.96 | 0.05 |
| Rodriguez, Jesus (Jesse) | 0.22 | 0.76 | -1.77 | -0.68 | 1.29 | -1.18 | -0.49 | -0.98 |
| Sanchez, Arthur | -0.56 | 0.15 | 0.42 | -0.89 | 0.43 | 1.09 | 0.23 | -1.39 |
| Seiz, Ray | 0.22 | -1.06 | 0.42 | 0.95 | 1.29 | 0.08 | 0.23 | 0.67 |
| Viera, Ralph B. | -0.56 | -1.67 | 0.42 | 0.54 | -2.15 | -0.17 | -1.22 | 0.87 |
| Zalewski, John | 0.22 | 0.15 | 0.73 | 0.54 | 0.43 | -0.17 | 0.23 | 0.46 |
| MAXIMUM | -3.16 | 1.67 | -1.77 | -2.31 | -2.15 | -1.69 | -1.94 | -2.21 |
| MINIMUM | -0.04 | 0.15 | 0.42 | -0.07 | 0.43 | 0.08 | -0.13 | 0.05 |
| RANGE(MAX-MIN) | -3.125 | 1.516 | -2.186 | -2.241 | -2.586 | -1.772 | -1.810 | -2.262 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= PTOPS - PISTON TOPS

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| Barrera, Tony | 7.07 | 7.11 | 7.19 | 7.15 | 7.16 | 6.98 | 7.03 | 6.95 | |
| Campbell, Bryan | 8.28 | 8.19 | 8.47 | 8.47 | 8.23 | 8.00 | 8.11 | 8.06 | |
| Kobrinetz, Joaquin J. | 7.91 | 7.92 | 7.96 | 7.89 | 7.85 | 7.84 | 7.83 | 7.84 | |
| Lopez, Frank | 8.44 | 8.52 | 8.39 | 8.31 | 8.13 | 7.68 | 7.79 | 8.13 | |
| Lowsky, John | 7.94 | 7.83 | 7.88 | 7.96 | 7.94 | 7.75 | 7.93 | 7.85 | |
| Millward, Glen | 8.56 | 8.63 | 8.87 | 8.71 | 8.61 | 8.68 | 8.52 | 8.33 | |
| Rodriguez, Jesus (Jesse) | 7.99 | 7.94 | 7.83 | 8.10 | 7.42 | 7.31 | 7.28 | 7.41 | |
| Sanchez, Arthur | 7.57 | 7.76 | 7.73 | 7.80 | 7.77 | 8.10 | 7.97 | 7.92 | |
| Seiz, Ray | 7.08 | 7.74 | 7.60 | 7.56 | 7.14 | 7.12 | 7.02 | 6.89 | |
| MAXIMUM | 8.56 | 8.63 | 8.87 | 8.71 | 8.61 | 8.68 | 8.52 | 8.33 | |
| MINIMUM | 7.07 | 7.11 | 7.19 | 7.15 | 7.14 | 6.98 | 7.02 | 6.89 | |
| RANGE(MAX-MIN) | 1.490 | 1.520 | 1.680 | 1.560 | 1.470 | 1.700 | 1.500 | 1.440 | |
| MEAN | 7.871 | 7.960 | 7.991 | 7.994 | 7.806 | 7.718 | 7.720 | 7.709 | |
| STANDARD DEVIATION | 0.541 | 0.453 | 0.508 | 0.474 | 0.495 | 0.529 | 0.509 | 0.513 | |

Part ID= PTOPS - PISTON TOPS

PTOPS Yi Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| Barrera, Tony | -1.48 | -1.87 | -1.58 | -1.78 | -1.30 | -1.40 | -1.35 | -1.48 | |
| Campbell, Bryan | 0.76 | 0.51 | 0.94 | 1.00 | 0.86 | 0.53 | 0.77 | 0.68 | |
| Kobrinetz, Joaquin J. | 0.07 | -0.09 | -0.06 | -0.22 | 0.09 | 0.23 | 0.22 | 0.26 | |
| Lopez, Frank | 1.05 | 1.23 | 0.79 | 0.67 | 0.66 | -0.07 | 0.14 | 0.82 | |
| Lowsky, John | 0.13 | -0.29 | -0.22 | -0.07 | 0.27 | 0.06 | 0.41 | 0.28 | |
| Millward, Glen | 1.27 | 1.48 | 1.73 | 1.51 | 1.62 | 1.82 | 1.57 | 1.21 | |
| Rodriguez, Jesus (Jesse) | 0.22 | -0.04 | -0.32 | 0.22 | -0.78 | -0.77 | -0.86 | -0.58 | |
| Sanchez, Arthur | -0.56 | -0.44 | -0.51 | -0.41 | -0.07 | 0.72 | 0.49 | 0.41 | |
| Seiz, Ray | -1.46 | -0.49 | -0.77 | -0.92 | -1.34 | -1.13 | -1.37 | -1.60 | |
| MAXIMUM | -1.48 | -1.87 | 1.73 | -1.78 | 1.62 | 1.82 | 1.57 | -1.60 | |
| MINIMUM | 0.07 | -0.04 | -0.06 | -0.07 | -0.07 | 0.06 | 0.14 | 0.26 | |
| RANGE(MAX-MIN) | -1.552 | -1.830 | 1.792 | -1.707 | 1.696 | 1.759 | 1.433 | -1.853 | |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= L1 - SPECIALTY PISTON

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G2TOT | L2TOT | THTOT | ATTOT |
|--------------------------|-------|-------|-------|-------|
| Adams, Patrick | 2.52 | 2.89 | 4.50 | 4.89 |
| Barrera, Tony | 3.51 | 4.36 | 5.83 | 7.09 |
| Castillo, George | 2.70 | 3.74 | 5.93 | 5.95 |
| Foecking, Brian | 3.56 | 3.40 | 5.93 | 6.27 |
| Hurst, Kevin R. | 1.89 | 3.78 | 5.84 | 4.29 |
| Lopez, Frank | 1.41 | 3.01 | 6.85 | 6.94 |
| Rodriguez, Jesus (Jesse) | 3.01 | 7.37 | 4.94 | 5.59 |
| Sanchez, Arthur | 2.46 | 4.16 | 6.54 | 6.94 |
| Seiz, Ray | 3.34 | 3.06 | 5.61 | 6.34 |
| Swanson, Dennis | 2.20 | 4.49 | 6.24 | 5.83 |
| Veiga, Victor | 2.90 | 4.19 | 6.20 | 6.29 |
| Zalewski, John | 3.04 | 3.02 | 7.25 | 5.59 |
| MAXIMUM | 3.56 | 7.37 | 7.25 | 7.09 |
| MINIMUM | 1.41 | 2.89 | 4.50 | 4.29 |
| RANGE(MAX-MIN) | 2.150 | 4.480 | 2.750 | 2.800 |
| MEAN | 2.712 | 3.956 | 5.972 | 6.001 |
| STANDARD DEVIATION | 0.655 | 1.217 | 0.754 | 0.839 |

Part ID= L1 - SPECIALTY PISTON

L1 Yi Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G2TOT | L2TOT | THTOT | ATTOT |
|--------------------------|--------|-------|--------|--------|
| Adams, Patrick | -0.29 | -0.88 | -1.95 | -1.32 |
| Barrera, Tony | 1.22 | 0.33 | -0.19 | 1.30 |
| Castillo, George | -0.02 | -0.18 | -0.06 | -0.06 |
| Foecking, Brian | 1.30 | -0.46 | -0.06 | 0.32 |
| Hurst, Kevin R. | -1.25 | -0.14 | -0.17 | -2.04 |
| Lopez, Frank | -1.99 | -0.78 | 1.16 | 1.12 |
| Rodriguez, Jesus (Jesse) | 0.46 | 2.81 | -1.37 | -0.49 |
| Sanchez, Arthur | -0.38 | 0.17 | 0.75 | 1.12 |
| Seiz, Ray | 0.96 | -0.74 | -0.48 | 0.40 |
| Swanson, Dennis | -0.78 | 0.44 | 0.36 | -0.20 |
| Veiga, Victor | 0.29 | 0.19 | 0.30 | 0.34 |
| Zalewski, John | 0.50 | -0.77 | 1.70 | -0.49 |
| MAXIMUM | -1.99 | 2.81 | -1.95 | -2.04 |
| MINIMUM | -0.02 | -0.14 | -0.06 | -0.06 |
| RANGE(MAX-MIN) | -1.970 | 2.950 | -1.896 | -1.977 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 |

Screened Data

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= L1 - SPECIALTY PISTON

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G2TOT | L2TOT | THTOT | ATTOT |
|--------------------|-------|-------|-------|-------|
| Adams, Patrick | 2.52 | 2.89 | 4.50 | 4.89 |
| Barrera, Tony | 3.51 | 4.36 | 5.83 | 7.09 |
| Castillo, George | 2.70 | 3.74 | 5.93 | 5.95 |
| Foecking, Brian | 3.56 | 3.40 | 5.93 | 6.27 |
| Hurst, Kevin R. | 1.89 | 3.78 | 5.84 | 4.29 |
| Lopez, Frank | 1.41 | 3.01 | 6.85 | 6.94 |
| Sanchez, Arthur | 2.46 | 4.16 | 6.54 | 6.94 |
| Seiz, Ray | 3.34 | 3.06 | 5.61 | 6.34 |
| Swanson, Dennis | 2.20 | 4.49 | 6.24 | 5.83 |
| Veiga, Victor | 2.90 | 4.19 | 6.20 | 6.29 |
| Zalewski, John | 3.04 | 3.02 | 7.25 | 5.59 |
| MAXIMUM | 3.56 | 4.49 | 7.25 | 7.09 |
| MINIMUM | 1.41 | 2.89 | 4.50 | 4.29 |
| RANGE(MAX-MIN) | 2.150 | 1.600 | 2.750 | 2.800 |
| MEAN | 2.685 | 3.645 | 6.065 | 6.038 |
| STANDARD DEVIATION | 0.680 | 0.598 | 0.714 | 0.870 |

Part ID= L1 - SPECIALTY PISTON

L1 Yi Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G2TOT | L2TOT | THTOT | ATTOT |
|--------------------|--------|-------|--------|--------|
| Adams, Patrick | -0.24 | -1.26 | -2.19 | -1.32 |
| Barrera, Tony | 1.21 | 1.19 | -0.33 | 1.21 |
| Castillo, George | 0.02 | 0.16 | -0.19 | -0.10 |
| Foecking, Brian | 1.29 | -0.41 | -0.19 | 0.27 |
| Hurst, Kevin R. | -1.17 | 0.22 | -0.32 | -2.01 |
| Lopez, Frank | -1.88 | -1.06 | 1.10 | 1.04 |
| Sanchez, Arthur | -0.33 | 0.86 | 0.66 | 1.04 |
| Seiz, Ray | 0.96 | -0.98 | -0.64 | 0.35 |
| Swanson, Dennis | -0.71 | 1.41 | 0.24 | -0.24 |
| Veiga, Victor | 0.32 | 0.91 | 0.19 | 0.29 |
| Zalewski, John | 0.52 | -1.05 | 1.66 | -0.52 |
| MAXIMUM | -1.88 | 1.41 | -2.19 | -2.01 |
| MINIMUM | 0.02 | 0.16 | 0.19 | -0.10 |
| RANGE(MAX-MIN) | -1.898 | 1.253 | -2.382 | -1.908 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= X1 - DV4 PISTON

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT |
|--------------------------|-------|-------|-------|-------|-------|
| Adams, Patrick | 0.74 | 4.68 | 9.32 | 5.37 | 9.00 |
| Avis, Steven | 0.74 | 4.96 | 9.78 | 5.70 | 9.95 |
| Barrera, Tony | 0.74 | 5.33 | 9.92 | 6.04 | 9.90 |
| Caproni, David | 0.72 | 5.16 | 9.70 | 5.62 | 9.90 |
| Castillo, George | 0.73 | 5.18 | 9.66 | 5.95 | 9.67 |
| Greenland, Paul | 0.61 | 6.40 | 9.95 | 6.55 | 9.95 |
| Hurst, Kevin R. | 0.74 | 5.10 | 9.37 | 5.07 | 9.11 |
| Lopez, Frank | 0.74 | 5.16 | 9.80 | 6.55 | 9.80 |
| Lowsky, John | 0.70 | 5.29 | 9.75 | 5.37 | 9.80 |
| Potocar, William P | 0.68 | 4.78 | 9.96 | 5.94 | 9.95 |
| Rodriguez, Jesus (Jesse) | 0.71 | 4.76 | 9.70 | 6.13 | 9.70 |
| Swanson, Dennis | 0.66 | 4.71 | 8.93 | 5.08 | 9.79 |
| Viera, Ralph B. | 0.73 | 5.98 | 9.84 | 5.48 | 9.78 |
| Zalewski, John | 0.71 | 4.80 | 9.70 | 5.14 | 9.70 |
| MAXIMUM | 0.74 | 6.40 | 9.96 | 6.55 | 9.95 |
| MINIMUM | 0.61 | 4.68 | 8.93 | 5.07 | 9.00 |
| RANGE(MAX-MIN) | 0.130 | 1.720 | 1.030 | 1.480 | 0.950 |
| MEAN | 0.711 | 5.164 | 9.670 | 5.714 | 9.714 |
| STANDARD DEVIATION | 0.038 | 0.494 | 0.284 | 0.498 | 0.296 |

Part ID= X1 - DV4 PISTON

X1 Y1 Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT |
|--------------------------|--------|-------|--------|-------|--------|
| Adams, Patrick | 0.77 | -0.98 | -1.23 | -0.69 | -2.41 |
| Avis, Steven | 0.77 | -0.41 | 0.39 | -0.03 | 0.80 |
| Barrera, Tony | 0.77 | 0.34 | 0.88 | 0.65 | 0.63 |
| Caproni, David | 0.24 | -0.01 | 0.11 | -0.19 | 0.63 |
| Castillo, George | 0.51 | 0.03 | -0.04 | 0.47 | -0.15 |
| Greenland, Paul | -2.64 | 2.51 | 0.98 | 1.68 | 0.80 |
| Hurst, Kevin R. | 0.77 | -0.13 | -1.05 | -1.29 | -2.04 |
| Lopez, Frank | 0.77 | -0.01 | 0.46 | 1.68 | 0.29 |
| Lowsky, John | -0.28 | 0.26 | 0.28 | -0.69 | 0.29 |
| Potocar, William P | -0.81 | -0.78 | 1.02 | 0.45 | 0.80 |
| Rodriguez, Jesus (Jesse) | -0.02 | -0.82 | 0.11 | 0.84 | -0.05 |
| Swanson, Dennis | -1.33 | -0.92 | -2.60 | -1.27 | 0.26 |
| Viera, Ralph B. | 0.51 | 1.65 | 0.60 | -0.47 | 0.22 |
| Zalewski, John | -0.02 | -0.74 | 0.11 | -1.15 | -0.05 |
| MAXIMUM | -2.64 | 2.51 | -2.60 | 1.68 | -2.41 |
| MINIMUM | -0.02 | -0.01 | -0.04 | -0.03 | -0.05 |
| RANGE(MAX-MIN) | -2.623 | 2.512 | -2.566 | 1.705 | -2.366 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= Y1 - DV4 PISTON

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT |
|--------------------------|-------|-------|-------|-------|-------|
| Adams, Patrick | 0.73 | 1.21 | 8.25 | 1.63 | 8.30 |
| Aguirre, Nancy P | 0.65 | 1.51 | 8.98 | 1.52 | 9.40 |
| Barrera, Tony | 0.70 | 1.21 | 9.59 | 1.48 | 9.66 |
| Cales, Jonathon | 0.71 | 1.31 | 9.52 | 1.53 | 9.85 |
| Castillo, George | 0.71 | 1.53 | 9.01 | 1.54 | 9.37 |
| Cumberworth, Lee | 0.71 | 1.26 | 9.43 | 1.51 | 9.89 |
| Greenland, Paul | 0.66 | 1.68 | 9.78 | 1.54 | 9.70 |
| Hills, Barry | 0.75 | 1.50 | 9.32 | 1.20 | 9.60 |
| Lopez, Frank | 0.72 | 1.54 | 9.80 | 1.47 | 9.80 |
| Lowsky, John | 0.67 | 1.91 | 9.50 | 2.38 | 9.50 |
| Rodriguez, Jesus (Jesse) | 0.66 | 1.79 | 9.49 | 1.89 | 9.48 |
| Sanchez, Arthur | 0.69 | 1.63 | 9.41 | 1.13 | 9.69 |
| Seiz, Ray | 0.71 | 1.80 | 9.75 | 2.16 | 9.80 |
| Veiga, Victor | 0.69 | 1.60 | 8.60 | 1.70 | 9.65 |
| Viera, Ralph B. | 0.73 | 1.07 | 7.50 | 1.73 | 9.00 |
| Zalewski, John | 0.71 | 1.82 | 9.26 | 1.57 | 9.50 |
| MAXIMUM | 0.75 | 1.91 | 9.80 | 2.38 | 9.89 |
| MINIMUM | 0.65 | 1.07 | 7.50 | 1.13 | 8.30 |
| RANGE(MAX-MIN) | 0.100 | 0.840 | 2.300 | 1.250 | 1.590 |
| MEAN | 0.700 | 1.523 | 9.199 | 1.624 | 9.512 |
| STANDARD DEVIATION | 0.028 | 0.251 | 0.621 | 0.312 | 0.392 |

Part ID= Y1 - DV4 PISTON

Y1 YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT |
|--------------------------|--------|--------|--------|-------|--------|
| Adams, Patrick | 1.06 | -1.25 | -1.53 | 0.02 | -3.09 |
| Aguirre, Nancy P | -1.77 | -0.05 | -0.35 | -0.33 | -0.29 |
| Barrera, Tony | 0.00 | -1.25 | 0.63 | -0.46 | 0.38 |
| Cales, Jonathon | 0.35 | -0.85 | 0.52 | -0.30 | 0.86 |
| Castillo, George | 0.35 | 0.03 | -0.31 | -0.27 | -0.36 |
| Cumberworth, Lee | 0.35 | -1.05 | 0.37 | -0.36 | 0.96 |
| Greenland, Paul | -1.41 | 0.63 | 0.94 | -0.27 | 0.48 |
| Hills, Barry | 1.77 | -0.09 | 0.19 | -1.36 | 0.22 |
| Lopez, Frank | 0.71 | 0.07 | 0.97 | -0.49 | 0.74 |
| Lowsky, John | -1.06 | 1.54 | 0.48 | 2.42 | -0.03 |
| Rodriguez, Jesus (Jesse) | -1.41 | 1.06 | 0.47 | 0.85 | -0.08 |
| Sanchez, Arthur | -0.35 | 0.43 | 0.34 | -1.58 | 0.45 |
| Seiz, Ray | 0.35 | 1.10 | 0.89 | 1.72 | 0.74 |
| Veiga, Victor | -0.35 | 0.31 | -0.97 | 0.24 | 0.35 |
| Viera, Ralph B. | 1.06 | -1.81 | -2.74 | 0.34 | -1.31 |
| Zalewski, John | 0.35 | 1.18 | 0.10 | -0.17 | -0.03 |
| MAXIMUM | -1.77 | -1.81 | -2.74 | 2.42 | -3.09 |
| MINIMUM | 0.00 | 0.03 | 0.10 | 0.02 | -0.03 |
| RANGE(MAX-MIN) | -1.768 | -1.833 | -2.835 | 2.400 | -3.062 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= Z1 - DV4 PISTON

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT |
|--------------------|-------|-------|-------|-------|-------|
| Cales, Jonathon | 2.91 | 0.26 | 3.23 | 0.49 | 3.05 |
| Caproni, David | 0.57 | 0.28 | 3.85 | 0.17 | 3.00 |
| Castillo, George | 2.71 | 0.08 | 3.69 | 0.15 | 3.03 |
| Cumberworth, Lee | 2.40 | 0.26 | 3.26 | 0.45 | 3.02 |
| Hills, Barry | 1.52 | 0.52 | 3.58 | 0.11 | 2.64 |
| Hurst, Kevin R. | 2.57 | 0.28 | 3.05 | 0.15 | 2.90 |
| Lopez, Frank | 1.63 | 0.19 | 3.67 | 0.08 | 2.68 |
| Lowsky, John | 3.47 | 0.30 | 4.04 | 0.10 | 3.54 |
| Potocar, William P | 1.37 | 0.13 | 3.58 | 0.22 | 2.92 |
| Sanchez, Arthur | 2.65 | 0.17 | 3.77 | 0.21 | 3.06 |
| Seiz, Ray | 1.96 | 0.15 | 3.54 | 0.12 | 3.08 |
| Swanson, Dennis | 2.65 | 0.11 | 3.25 | 0.15 | 2.78 |
| Veiga, Victor | 2.13 | 0.22 | 3.48 | 0.20 | 2.95 |
| Viera, Ralph B. | 1.20 | 0.20 | 2.78 | 0.32 | 2.53 |
| MAXIMUM | 3.47 | 0.52 | 4.04 | 0.49 | 3.54 |
| MINIMUM | 0.57 | 0.08 | 2.78 | 0.08 | 2.53 |
| RANGE(MAX-MIN) | 2.900 | 0.440 | 1.260 | 0.410 | 1.010 |
| MEAN | 2.124 | 0.225 | 3.484 | 0.209 | 2.941 |
| STANDARD DEVIATION | 0.788 | 0.109 | 0.337 | 0.126 | 0.245 |

Part ID= Z1 - DV4 PISTON

Z1 Yi Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT |
|--------------------|--------|-------|--------|-------|-------|
| Cales, Jonathon | 1.00 | 0.32 | -0.75 | 2.23 | 0.44 |
| Caproni, David | -1.97 | 0.50 | 1.09 | -0.31 | 0.24 |
| Castillo, George | 0.74 | -1.33 | 0.61 | -0.46 | 0.36 |
| Cumberworth, Lee | 0.35 | 0.32 | -0.66 | 1.91 | 0.32 |
| Hills, Barry | -0.77 | 2.70 | 0.29 | -0.78 | -1.23 |
| Hurst, Kevin R. | 0.57 | 0.50 | -1.29 | -0.46 | -0.17 |
| Lopez, Frank | -0.63 | -0.32 | 0.55 | -1.02 | -1.07 |
| Lowsky, John | 1.71 | 0.69 | 1.65 | -0.86 | 2.45 |
| Potocar, William P | -0.96 | -0.87 | 0.29 | 0.09 | -0.09 |
| Sanchez, Arthur | 0.67 | -0.50 | 0.85 | 0.01 | 0.48 |
| Seiz, Ray | -0.21 | -0.69 | 0.17 | -0.70 | 0.57 |
| Swanson, Dennis | 0.67 | -1.05 | -0.69 | -0.46 | -0.66 |
| Veiga, Victor | 0.01 | -0.05 | -0.01 | -0.07 | 0.04 |
| Viera, Ralph B. | -1.17 | -0.23 | -2.09 | 0.88 | -1.68 |
| MAXIMUM | -1.97 | 2.70 | -2.09 | 2.23 | 2.45 |
| MINIMUM | 0.01 | -0.05 | -0.01 | 0.01 | 0.04 |
| RANGE(MAX-MIN) | -1.980 | 2.748 | -2.077 | 2.215 | 2.413 |
| MEAN | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VRCL - VG RC SLUDGE L

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | TOTALS | |
|--------------------------|--------|--|
| Adams, Patrick | 8.64 | |
| Aguirre, Nancy P | 9.09 | |
| Avis, Steven | 9.00 | |
| Barrera, Tony | 8.98 | |
| Cales, Jonathon | 8.96 | |
| Campbell, Bryan | 9.04 | |
| Caproni, David | 8.87 | |
| Castillo, George | 8.83 | |
| Cumberworth, Lee | 9.01 | |
| Foecking, Brian | 8.87 | |
| Greenland, Paul | 9.17 | |
| Hills, Barry | 9.07 | |
| Hurst, Kevin R. | 9.28 | |
| Kobrinetz, Joaquin J. | 9.02 | |
| Kraemer, Vernon | 9.01 | |
| Lonsway, Chris | 9.00 | |
| Lopez, Frank | 8.79 | |
| Lowsky, John | 8.57 | |
| May, Marianne | 8.98 | |
| Millward, Glen | 8.96 | |
| Potocar, William P | 8.99 | |
| Rodriguez, Jesus (Jesse) | 8.96 | |
| Sanchez, Arthur | 8.64 | |
| Seiz, Ray | 8.70 | |
| Trevino, Bobby | 9.21 | |
| Veiga, Victor | 9.16 | |
| Viera, Ralph B. | 9.14 | |
| Zalewski, John | 9.06 | |
| MAXIMUM | 9.28 | |
| MINIMUM | 8.57 | |
| RANGE(MAX-MIN) | 0.710 | |
| MEAN | 8.964 | |
| STANDARD DEVIATION | 0.175 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VRCL - VG RC SLUDGE L

VRCL Yi Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | TOTALS | |
|--------------------------|--------|--|
| Adams, Patrick | -1.85 | |
| Aguirre, Nancy P | 0.72 | |
| Avis, Steven | 0.20 | |
| Barrera, Tony | 0.09 | |
| Cales, Jonathon | -0.02 | |
| Campbell, Bryan | 0.43 | |
| Caproni, David | -0.54 | |
| Castillo, George | -0.77 | |
| Cumberworth, Lee | 0.26 | |
| Foecking, Brian | -0.54 | |
| Greenland, Paul | 1.18 | |
| Hills, Barry | 0.60 | |
| Hurst, Kevin R. | 1.80 | |
| Kobrinetz, Joaquin J. | 0.32 | |
| Kraemer, Vernon | 0.26 | |
| Lonsway, Chris | 0.20 | |
| Lopez, Frank | -1.00 | |
| Lowsky, John | -2.25 | |
| May, Marianne | 0.09 | |
| Millward, Glen | -0.02 | |
| Potocar, William P | 0.15 | |
| Rodriguez, Jesus (Jesse) | -0.02 | |
| Sanchez, Arthur | -1.85 | |
| Seiz, Ray | -1.51 | |
| Trevino, Bobby | 1.40 | |
| Veiga, Victor | 1.12 | |
| Viera, Ralph B. | 1.00 | |
| Zalewski, John | 0.55 | |
| MAXIMUM | -2.25 | |
| MINIMUM | -0.02 | |
| RANGE(MAX-MIN) | -2.229 | |
| MEAN | 0.000 | |
| STANDARD DEVIATION | 1.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VRCBL - VG RC BAFFLE SLUDGE L

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | TOTALS | |
|--------------------------|--------|--|
| Adams, Patrick | 9.35 | |
| Aguirre, Nancy P | 9.48 | |
| Avis, Steven | 9.55 | |
| Barrera, Tony | 9.57 | |
| Cales, Jonathon | 9.36 | |
| Campbell, Bryan | 9.65 | |
| Caproni, David | 9.50 | |
| Castillo, George | 9.52 | |
| Cumberworth, Lee | 9.35 | |
| Foecking, Brian | 9.48 | |
| Greenland, Paul | 9.50 | |
| Hills, Barry | 9.25 | |
| Hurst, Kevin R. | 9.67 | |
| Kobrinetz, Joaquin J. | 9.53 | |
| Kraemer, Vernón | 9.55 | |
| Lonsway, Chris | 9.50 | |
| Lopez, Frank | 9.57 | |
| Lowsky, John | 9.06 | |
| May, Marianne | 9.48 | |
| Millward, Glen | 9.66 | |
| Potocar, William P | 9.58 | |
| Rodriguez, Jesus (Jesse) | 9.45 | |
| Sanchez, Arthur | 9.42 | |
| Seiz, Ray | 9.28 | |
| Terrado, Ken | 9.59 | |
| Trevino, Bobby | 9.53 | |
| Veiga, Victor | 9.43 | |
| Viera, Ralph B. | 9.56 | |
| Zalewski, John | 9.36 | |
| MAXIMUM | 9.67 | |
| MINIMUM | 9.06 | |
| RANGE(MAX-MIN) | 0.610 | |
| MEAN | 9.475 | |
| STANDARD DEVIATION | 0.133 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VRCBL - VG RC BAFFLE SLUDGE L

VRCBL Yi Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | TOTALS | |
|--------------------------|--------|--|
| Adams, Patrick | -0.94 | |
| Aguirre, Nancy P | 0.04 | |
| Avis, Steven | 0.56 | |
| Barrera, Tony | 0.71 | |
| Cales, Jonathon | -0.86 | |
| Campbell, Bryan | 1.31 | |
| Caproni, David | 0.19 | |
| Castillo, George | 0.34 | |
| Cumberworth, Lee | -0.94 | |
| Foecking, Brian | 0.04 | |
| Greenland, Paul | 0.19 | |
| Hills, Barry | -1.69 | |
| Hurst, Kevin R. | 1.46 | |
| Kobrinetz, Joaquin J. | 0.41 | |
| Kraemer, Vernon | 0.56 | |
| Lonsway, Chris | 0.19 | |
| Lopez, Frank | 0.71 | |
| Lowsky, John | -3.11 | |
| May, Marianne | 0.04 | |
| Millward, Glen | 1.39 | |
| Potocar, William P | 0.79 | |
| Rodriguez, Jesus (Jesse) | -0.19 | |
| Sanchez, Arthur | -0.41 | |
| Seiz, Ray | -1.46 | |
| Terrado, Ken | 0.86 | |
| Trevino, Bobby | 0.41 | |
| Veiga, Victor | -0.34 | |
| Viera, Ralph B. | 0.64 | |
| Zalewski, John | -0.86 | |
| MAXIMUM | -3.11 | |
| MINIMUM | 0.04 | |
| RANGE(MAX-MIN) | -3.150 | |
| MEAN | 0.000 | |
| STANDARD DEVIATION | 1.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VVDL - VG VALVE DECK SLUDGE L

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | TOTALS | |
|--------------------------|--------|--|
| Adams, Patrick | 9.50 | |
| Aguirre, Nancy P | 9.43 | |
| Avis, Steven | 9.72 | |
| Barrera, Tony | 9.58 | |
| Cales, Jonathon | 9.37 | |
| Campbell, Bryan | 9.15 | |
| Caproni, David | 9.50 | |
| Castillo, George | 9.65 | |
| Cumberworth, Lee | 9.43 | |
| Foecking, Brian | 9.47 | |
| Greenland, Paul | 9.65 | |
| Hills, Barry | 9.56 | |
| Hurst, Kevin R. | 9.64 | |
| Kobrinetz, Joaquin J. | 9.51 | |
| Kraemer, Vernón | 9.56 | |
| Lonsway, Chris | 9.37 | |
| Lopez, Frank | 9.55 | |
| Lowsky, John | 9.48 | |
| May, Marianne | 9.48 | |
| Potocar, William P | 9.25 | |
| Rodriguez, Jesus (Jesse) | 9.64 | |
| Sanchez, Arthur | 9.45 | |
| Seiz, Ray | 9.55 | |
| Trevino, Bobby | 9.48 | |
| Veiga, Victor | 9.56 | |
| Viera, Ralph B. | 9.34 | |
| Zalewski, John | 9.43 | |
| MAXIMUM | 9.72 | |
| MINIMUM | 9.15 | |
| RANGE(MAX-MIN) | 0.570 | |
| MEAN | 9.493 | |
| STANDARD DEVIATION | 0.127 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VVDL - VG VALVE DECK SLUDGE L

VVDL Yi Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | TOTALS | |
|--------------------------|--------|--|
| Adams, Patrick | 0.06 | |
| Aguirre, Nancy P | -0.49 | |
| Avis, Steven | 1.80 | |
| Barrera, Tony | 0.69 | |
| Cales, Jonathon | -0.97 | |
| Campbell, Bryan | -2.70 | |
| Caproni, David | 0.06 | |
| Castillo, George | 1.24 | |
| Cumberworth, Lee | -0.49 | |
| Foecking, Brian | -0.18 | |
| Greenland, Paul | 1.24 | |
| Hills, Barry | 0.53 | |
| Hurst, Kevin R. | 1.16 | |
| Kobrinetz, Joaquin J. | 0.14 | |
| Kraemer, Vernón | 0.53 | |
| Lonsway, Chris | -0.97 | |
| Lopez, Frank | 0.45 | |
| Lowsky, John | -0.10 | |
| May, Marianne | -0.10 | |
| Potocar, William P | -1.92 | |
| Rodriguez, Jesus (Jesse) | 1.16 | |
| Sanchez, Arthur | -0.34 | |
| Seiz, Ray | 0.45 | |
| Trevino, Bobby | -0.10 | |
| Veiga, Victor | 0.53 | |
| Viera, Ralph B. | -1.20 | |
| Zalewski, John | -0.49 | |
| MAXIMUM | -2.70 | |
| MINIMUM | 0.06 | |
| RANGE(MAX-MIN) | -2.763 | |
| MEAN | 0.000 | |
| STANDARD DEVIATION | 1.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VTCC - VG TIMING CHAIN CVR SLUDGE

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | TOTALS | |
|--------------------------|--------|--|
| Adams, Patrick | 9.54 | |
| Aguirre, Nancy P | 9.63 | |
| Avis, Steven | 9.75 | |
| Barrera, Tony | 9.60 | |
| Cales, Jonathon | 9.60 | |
| Campbell, Bryan | 9.49 | |
| Caproni, David | 9.61 | |
| Castillo, George | 9.66 | |
| Cumberworth, Lee | 9.54 | |
| Foecking, Brian | 9.55 | |
| Greenland, Paul | 9.67 | |
| Hills, Barry | 9.70 | |
| Hurst, Kevin R. | 9.69 | |
| Kobrinetz, Joaquin J. | 9.63 | |
| Kraemer, Vernón | 9.64 | |
| Lonsway, Chris | 9.70 | |
| Lopez, Frank | 9.70 | |
| Lowsky, John | 9.56 | |
| May, Marianne | 9.52 | |
| Millward, Glen | 9.59 | |
| Potocar, William P | 9.62 | |
| Rodriguez, Jesus (Jesse) | 9.62 | |
| Sanchez, Arthur | 9.56 | |
| Seiz, Ray | 9.48 | |
| Terrado, Ken | 9.75 | |
| Trevino, Bobby | 9.57 | |
| Veiga, Victor | 9.70 | |
| Viera, Ralph B. | 9.66 | |
| Zalewski, John | 9.57 | |
| MAXIMUM | 9.75 | |
| MINIMUM | 9.48 | |
| RANGE(MAX-MIN) | 0.270 | |
| MEAN | 9.617 | |
| STANDARD DEVIATION | 0.073 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VTCC - VG TIMING CHAIN CVR SLUDGE

VTCC Yi Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | TOTALS | |
|--------------------------|--------|--|
| Adams, Patrick | -1.06 | |
| Aguirre, Nancy P | 0.18 | |
| Avis, Steven | 1.82 | |
| Barrera, Tony | -0.24 | |
| Cales, Jonathon | -0.24 | |
| Campbell, Bryan | -1.75 | |
| Caproni, David | -0.10 | |
| Castillo, George | 0.59 | |
| Cumberworth, Lee | -1.06 | |
| Foecking, Brian | -0.92 | |
| Greenland, Paul | 0.72 | |
| Hills, Barry | 1.14 | |
| Hurst, Kevin R. | 1.00 | |
| Kobrinetz, Joaquin J. | 0.18 | |
| Kraemer, Vernon | 0.31 | |
| Lonsway, Chris | 1.14 | |
| Lopez, Frank | 1.14 | |
| Lowsky, John | -0.79 | |
| May, Marianne | -1.33 | |
| Millward, Glen | -0.37 | |
| Potocar, William P | 0.04 | |
| Rodriguez, Jesus (Jesse) | 0.04 | |
| Sanchez, Arthur | -0.79 | |
| Seiz, Ray | -1.88 | |
| Terrado, Ken | 1.82 | |
| Trevino, Bobby | -0.65 | |
| Veiga, Victor | 1.14 | |
| Viera, Ralph B. | 0.59 | |
| Zalewski, John | -0.65 | |
| MAXIMUM | -1.88 | |
| MINIMUM | 0.04 | |
| RANGE(MAX-MIN) | -1.922 | |
| MEAN | 0.000 | |
| STANDARD DEVIATION | 1.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= OILSCR - VG OIL SCREEN

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1 | P2 |
|--------------------------|-------|-------|
| Adams, Patrick | 5.00 | 1.00 |
| Aguirre, Nancy P | 3.00 | 1.00 |
| Avis, Steven | 6.00 | 2.00 |
| Barrera, Tony | 4.00 | 1.00 |
| Cales, Jonathon | 5.00 | 1.00 |
| Campbell, Bryan | 6.00 | 1.00 |
| Caproni, David | 2.00 | 1.00 |
| Castillo, George | 3.00 | 2.00 |
| Cumberworth, Lee | 4.00 | 3.00 |
| Foecking, Brian | 4.00 | 1.00 |
| Greenland, Paul | 6.00 | 0.00 |
| Hills, Barry | 5.00 | 2.00 |
| Kobrinetz, Joaquin J. | 3.00 | 2.00 |
| Kraemer, Vernon | 5.00 | 2.00 |
| Lonsway, Chris | 5.00 | 1.00 |
| Lopez, Frank | 5.00 | 2.00 |
| Lowsky, John | 3.00 | 1.00 |
| May, Marianne | 5.00 | 2.00 |
| Millward, Glen | 8.00 | 2.00 |
| Potocar, William P | 5.00 | 1.00 |
| Rodriguez, Jesus (Jesse) | 2.00 | 1.00 |
| Sanchez, Arthur | 3.00 | 2.00 |
| Seiz, Ray | 3.00 | 1.00 |
| Trevino, Bobby | 4.00 | 1.00 |
| Veiga, Victor | 5.00 | 2.00 |
| Viera, Ralph B. | 2.00 | 1.00 |
| Zalewski, John | 2.00 | 3.00 |
| MAXIMUM | 8.00 | 3.00 |
| MINIMUM | 2.00 | 0.00 |
| RANGE(MAX-MIN) | 6.000 | 3.000 |
| MEAN | 4.185 | 1.481 |
| STANDARD DEVIATION | 1.495 | 0.700 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= OILSCR - VG OIL SCREEN

OILSCR Y1 Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | P1 | P2 |
|--------------------------|-------|-------|
| Adams, Patrick | 0.55 | -0.69 |
| Aguirre, Nancy P | -0.79 | -0.69 |
| Avis, Steven | 1.21 | 0.74 |
| Barrera, Tony | -0.12 | -0.69 |
| Cales, Jonathon | 0.55 | -0.69 |
| Campbell, Bryan | 1.21 | -0.69 |
| Caproni, David | -1.46 | -0.69 |
| Castillo, George | -0.79 | 0.74 |
| Cumberworth, Lee | -0.12 | 2.17 |
| Foecking, Brian | -0.12 | -0.69 |
| Greenland, Paul | 1.21 | -2.12 |
| Hills, Barry | 0.55 | 0.74 |
| Kobrinetz, Joaquin J. | -0.79 | 0.74 |
| Kraemer, Vernon | 0.55 | 0.74 |
| Lonsway, Chris | 0.55 | -0.69 |
| Lopez, Frank | 0.55 | 0.74 |
| Lowsky, John | -0.79 | -0.69 |
| May, Marianne | 0.55 | 0.74 |
| Millward, Glen | 2.55 | 0.74 |
| Potocar, William P | 0.55 | -0.69 |
| Rodriguez, Jesus (Jesse) | -1.46 | -0.69 |
| Sanchez, Arthur | -0.79 | 0.74 |
| Seiz, Ray | -0.79 | -0.69 |
| Trevino, Bobby | -0.12 | -0.69 |
| Veiga, Victor | 0.55 | 0.74 |
| Viera, Ralph B. | -1.46 | -0.69 |
| Zalewski, John | -1.46 | 2.17 |
| MAXIMUM | 2.55 | 2.17 |
| MINIMUM | -0.12 | -0.69 |
| RANGE(MAX-MIN) | 2.676 | 2.857 |
| MEAN | 0.000 | 0.000 |
| STANDARD DEVIATION | 1.000 | 1.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VRRCR - VG RC SLUDGE R

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | TOTALS | |
|--------------------------|--------|--|
| Adams, Patrick | 8.41 | |
| Aguirre, Nancy P | 8.94 | |
| Avis, Steven | 8.86 | |
| Barrera, Tony | 8.81 | |
| Cales, Jonathon | 9.00 | |
| Campbell, Bryan | 8.68 | |
| Caproni, David | 8.91 | |
| Castillo, George | 8.52 | |
| Cumberworth, Lee | 8.79 | |
| Foecking, Brian | 8.68 | |
| Greenland, Paul | 8.91 | |
| Hills, Barry | 8.77 | |
| Hurst, Kevin R. | 9.17 | |
| Kobrinetz, Joaquin J. | 8.96 | |
| Kraemer, Vernon | 9.16 | |
| Lonsway, Chris | 8.79 | |
| Lopez, Frank | 8.46 | |
| Lowsky, John | 8.48 | |
| May, Marianne | 8.68 | |
| Millward, Glen | 9.36 | |
| Potocar, William P | 9.06 | |
| Rodriguez, Jesus (Jesse) | 8.48 | |
| Sanchez, Arthur | 8.77 | |
| Seiz, Ray | 8.79 | |
| Trevino, Bobby | 9.01 | |
| Veiga, Victor | 9.09 | |
| Viera, Ralph B. | 9.20 | |
| Zalewski, John | 9.00 | |
| MAXIMUM | 9.36 | |
| MINIMUM | 8.41 | |
| RANGE(MAX-MIN) | 0.950 | |
| MEAN | 8.848 | |
| STANDARD DEVIATION | 0.245 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VRRCR - VG RC SLUDGE R

VRRCR Yi Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | TOTALS | |
|--------------------------|--------|--|
| Adams, Patrick | -1.79 | |
| Aguirre, Nancy P | 0.38 | |
| Avis, Steven | 0.05 | |
| Barrera, Tony | -0.15 | |
| Cales, Jonathon | 0.62 | |
| Campbell, Bryan | -0.69 | |
| Caproni, David | 0.25 | |
| Castillo, George | -1.34 | |
| Cumberworth, Lee | -0.24 | |
| Foecking, Brian | -0.69 | |
| Greenland, Paul | 0.25 | |
| Hills, Barry | -0.32 | |
| Hurst, Kevin R. | 1.31 | |
| Kobrinetz, Joaquin J. | 0.46 | |
| Kraemer, Vernon | 1.27 | |
| Lonsway, Chris | -0.24 | |
| Lopez, Frank | -1.58 | |
| Lowsky, John | -1.50 | |
| May, Marianne | -0.69 | |
| Millward, Glen | 2.09 | |
| Potocar, William P | 0.87 | |
| Rodriguez, Jesus (Jesse) | -1.50 | |
| Sanchez, Arthur | -0.32 | |
| Seiz, Ray | -0.24 | |
| Trevino, Bobby | 0.66 | |
| Veiga, Victor | 0.99 | |
| Viera, Ralph B. | 1.44 | |
| Zalewski, John | 0.62 | |
| MAXIMUM | 2.09 | |
| MINIMUM | 0.05 | |
| RANGE(MAX-MIN) | 2.041 | |
| MEAN | 0.000 | |
| STANDARD DEVIATION | 1.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VRCBR - VG RC BAFFLE SLUDGE R

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | TOTALS | |
|--------------------------|--------|--|
| Adams, Patrick | 9.37 | |
| Aguirre, Nancy P | 9.50 | |
| Avis, Steven | 9.54 | |
| Barrera, Tony | 9.50 | |
| Cales, Jonathon | 9.37 | |
| Campbell, Bryan | 9.70 | |
| Caproni, David | 9.50 | |
| Castillo, George | 9.51 | |
| Cumberworth, Lee | 9.37 | |
| Foecking, Brian | 9.47 | |
| Greenland, Paul | 9.50 | |
| Hills, Barry | 9.27 | |
| Hurst, Kevin R. | 9.71 | |
| Kobrinetz, Joaquin J. | 9.49 | |
| Kraemer, Vernón | 9.50 | |
| Lonsway, Chris | 9.50 | |
| Lopez, Frank | 9.54 | |
| Lowsky, John | 9.31 | |
| May, Marianne | 9.43 | |
| Millward, Glen | 9.63 | |
| Potocar, William P | 9.47 | |
| Rodriguez, Jesus (Jesse) | 9.37 | |
| Sanchez, Arthur | 9.40 | |
| Seiz, Ray | 9.30 | |
| Trevino, Bobby | 9.50 | |
| Veiga, Victor | 9.43 | |
| Viera, Ralph B. | 9.48 | |
| Zalewski, John | 9.37 | |
| MAXIMUM | 9.71 | |
| MINIMUM | 9.27 | |
| RANGE(MAX-MIN) | 0.440 | |
| MEAN | 9.465 | |
| STANDARD DEVIATION | 0.107 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VRCBR - VG RC BAFFLE SLUDGE R

VRCBR Yi Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | TOTALS | |
|--------------------------|--------|--|
| Adams, Patrick | -0.90 | |
| Aguirre, Nancy P | 0.33 | |
| Avis, Steven | 0.70 | |
| Barrera, Tony | 0.33 | |
| Cales, Jonathon | -0.90 | |
| Campbell, Bryan | 2.20 | |
| Caproni, David | 0.33 | |
| Castillo, George | 0.42 | |
| Cumberworth, Lee | -0.90 | |
| Foecking, Brian | 0.04 | |
| Greenland, Paul | 0.33 | |
| Hills, Barry | -1.83 | |
| Hurst, Kevin R. | 2.30 | |
| Kobrinetz, Joaquin J. | 0.23 | |
| Kraemer, Vernon | 0.33 | |
| Lonsway, Chris | 0.33 | |
| Lopez, Frank | 0.70 | |
| Lowsky, John | -1.46 | |
| May, Marianne | -0.33 | |
| Millward, Glen | 1.55 | |
| Potocar, William P | 0.04 | |
| Rodriguez, Jesus (Jesse) | -0.90 | |
| Sanchez, Arthur | -0.61 | |
| Seiz, Ray | -1.55 | |
| Trevino, Bobby | 0.33 | |
| Veiga, Victor | -0.33 | |
| Viera, Ralph B. | 0.14 | |
| Zalewski, John | -0.90 | |
| MAXIMUM | 2.30 | |
| MINIMUM | 0.04 | |
| RANGE(MAX-MIN) | 2.253 | |
| MEAN | 0.000 | |
| STANDARD DEVIATION | 1.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VVDR - VG VALVE DECK SLUDGE R

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | TOTALS | |
|--------------------------|--------|--|
| Adams, Patrick | 9.30 | |
| Aguirre, Nancy P | 9.43 | |
| Avis, Steven | 9.51 | |
| Barrera, Tony | 9.47 | |
| Cales, Jonathon | 9.36 | |
| Campbell, Bryan | 9.03 | |
| Caproni, David | 9.52 | |
| Castillo, George | 9.48 | |
| Cumberworth, Lee | 9.24 | |
| Foecking, Brian | 9.25 | |
| Greenland, Paul | 9.51 | |
| Hills, Barry | 9.34 | |
| Hurst, Kevin R. | 9.54 | |
| Kraemer, Vernon | 9.37 | |
| Lonsway, Chris | 9.13 | |
| Lopez, Frank | 9.38 | |
| Lowsky, John | 9.41 | |
| May, Marianne | 9.30 | |
| Potocar, William P | 9.22 | |
| Rodriguez, Jesus (Jesse) | 9.40 | |
| Sanchez, Arthur | 9.36 | |
| Seiz, Ray | 9.51 | |
| Trevino, Bobby | 9.30 | |
| Veiga, Victor | 9.34 | |
| Viera, Ralph B. | 9.43 | |
| Zalewski, John | 9.23 | |
| MAXIMUM | 9.54 | |
| MINIMUM | 9.03 | |
| RANGE(MAX-MIN) | 0.510 | |
| MEAN | 9.360 | |
| STANDARD DEVIATION | 0.127 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VVDR - VG VALVE DECK SLUDGE R

VVDR Yi Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | TOTALS | |
|--------------------------|--------|--|
| Adams, Patrick | -0.47 | |
| Aguirre, Nancy P | 0.55 | |
| Avis, Steven | 1.18 | |
| Barrera, Tony | 0.87 | |
| Cales, Jonathon | 0.00 | |
| Campbell, Bryan | -2.60 | |
| Caproni, David | 1.26 | |
| Castillo, George | 0.95 | |
| Cumberworth, Lee | -0.95 | |
| Foecking, Brian | -0.87 | |
| Greenland, Paul | 1.18 | |
| Hills, Barry | -0.16 | |
| Hurst, Kevin R. | 1.42 | |
| Kraemer, Vernon | 0.08 | |
| Lonsway, Chris | -1.81 | |
| Lopez, Frank | 0.16 | |
| Lowsky, John | 0.39 | |
| May, Marianne | -0.47 | |
| Potocar, William P | -1.10 | |
| Rodriguez, Jesus (Jesse) | 0.32 | |
| Sanchez, Arthur | 0.00 | |
| Seiz, Ray | 1.18 | |
| Trevino, Bobby | -0.47 | |
| Veiga, Victor | -0.16 | |
| Viera, Ralph B. | 0.55 | |
| Zalewski, John | -1.02 | |
| MAXIMUM | -2.60 | |
| MINIMUM | 0.00 | |
| RANGE(MAX-MIN) | -2.600 | |
| MEAN | 0.000 | |
| STANDARD DEVIATION | 1.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VOP - VG OIL PAN SLUDGE

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | TOTALS | |
|--------------------------|--------|--|
| Adams, Patrick | 9.48 | |
| Aguirre, Nancy P | 9.46 | |
| Avis, Steven | 9.62 | |
| Barrera, Tony | 9.64 | |
| Cales, Jonathon | 9.40 | |
| Campbell, Bryan | 9.37 | |
| Caproni, David | 9.64 | |
| Castillo, George | 9.66 | |
| Cumberworth, Lee | 9.59 | |
| Foecking, Brian | 9.48 | |
| Greenland, Paul | 9.55 | |
| Hills, Barry | 9.44 | |
| Hurst, Kevin R. | 9.70 | |
| Kraemer, Vernon | 9.60 | |
| Lonsway, Chris | 9.49 | |
| Lopez, Frank | 9.59 | |
| Lowsky, John | 9.53 | |
| May, Marianne | 9.54 | |
| Millward, Glen | 9.63 | |
| Potocar, William P | 9.59 | |
| Rodriguez, Jesus (Jesse) | 9.47 | |
| Sanchez, Arthur | 9.60 | |
| Seiz, Ray | 9.49 | |
| Trevino, Bobby | 9.53 | |
| Veiga, Victor | 9.49 | |
| Viera, Ralph B. | 9.57 | |
| Zalewski, John | 9.49 | |
| MAXIMUM | 9.70 | |
| MINIMUM | 9.37 | |
| RANGE(MAX-MIN) | 0.330 | |
| MEAN | 9.542 | |
| STANDARD DEVIATION | 0.083 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VOP - VG OIL PAN SLUDGE

VOP Yi Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | TOTALS | |
|--------------------------|--------|--|
| Adams, Patrick | -0.75 | |
| Aguirre, Nancy P | -1.00 | |
| Avis, Steven | 0.94 | |
| Barrera, Tony | 1.18 | |
| Cales, Jonathon | -1.72 | |
| Campbell, Bryan | -2.09 | |
| Caproni, David | 1.18 | |
| Castillo, George | 1.43 | |
| Cumberworth, Lee | 0.58 | |
| Foecking, Brian | -0.75 | |
| Greenland, Paul | 0.09 | |
| Hills, Barry | -1.24 | |
| Hurst, Kevin R. | 1.91 | |
| Kraemer, Vernon | 0.70 | |
| Lonsway, Chris | -0.63 | |
| Lopez, Frank | 0.58 | |
| Lowsky, John | -0.15 | |
| May, Marianne | -0.03 | |
| Millward, Glen | 1.06 | |
| Potocar, William P | 0.58 | |
| Rodriguez, Jesus (Jesse) | -0.87 | |
| Sanchez, Arthur | 0.70 | |
| Seiz, Ray | -0.63 | |
| Trevino, Bobby | -0.15 | |
| Veiga, Victor | -0.63 | |
| Viera, Ralph B. | 0.34 | |
| Zalewski, John | -0.63 | |
| MAXIMUM | -2.09 | |
| MINIMUM | -0.03 | |
| RANGE(MAX-MIN) | -2.059 | |
| MEAN | 0.000 | |
| STANDARD DEVIATION | 1.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VOPB - VG OIL PAN BAFFLE SLUDGE

Rated Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | TOTALS | |
|--------------------------|--------|--|
| Adams, Patrick | 9.53 | |
| Aguirre, Nancy P | 9.45 | |
| Avis, Steven | 9.65 | |
| Barrera, Tony | 9.60 | |
| Cales, Jonathon | 9.51 | |
| Campbell, Bryan | 9.52 | |
| Caproni, David | 9.50 | |
| Castillo, George | 9.71 | |
| Cumberworth, Lee | 9.53 | |
| Foecking, Brian | 9.50 | |
| Greenland, Paul | 9.49 | |
| Hills, Barry | 9.50 | |
| Hurst, Kevin R. | 9.69 | |
| Kobrinetz, Joaquin J. | 9.72 | |
| Kraemer, Vernón | 9.48 | |
| Lonsway, Chris | 9.50 | |
| Lopez, Frank | 9.71 | |
| Lowsky, John | 9.48 | |
| May, Marianne | 9.48 | |
| Millward, Glen | 9.64 | |
| Potocar, William P | 9.60 | |
| Rodriguez, Jesus (Jesse) | 9.58 | |
| Sanchez, Arthur | 9.62 | |
| Seiz, Ray | 9.43 | |
| Trevino, Bobby | 9.52 | |
| Veiga, Victor | 9.50 | |
| Viera, Ralph B. | 9.63 | |
| Zalewski, John | 9.52 | |
| MAXIMUM | 9.72 | |
| MINIMUM | 9.43 | |
| RANGE(MAX-MIN) | 0.290 | |
| MEAN | 9.557 | |
| STANDARD DEVIATION | 0.085 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Part ID= VOPB - VG OIL PAN BAFFLE SLUDGE

VOPB Y1 Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| Rater | TOTALS | |
|--------------------------|--------|--|
| Adams, Patrick | -0.32 | |
| Aguirre, Nancy P | -1.26 | |
| Avis, Steven | 1.10 | |
| Barrera, Tony | 0.51 | |
| Cales, Jonathon | -0.55 | |
| Campbell, Bryan | -0.43 | |
| Caproni, David | -0.67 | |
| Castillo, George | 1.81 | |
| Cumberworth, Lee | -0.32 | |
| Foecking, Brian | -0.67 | |
| Greenland, Paul | -0.79 | |
| Hills, Barry | -0.67 | |
| Hurst, Kevin R. | 1.57 | |
| Kobrinetz, Joaquin J. | 1.93 | |
| Kraemer, Vernon | -0.91 | |
| Lonsway, Chris | -0.67 | |
| Lopez, Frank | 1.81 | |
| Lowsky, John | -0.91 | |
| May, Marianne | -0.91 | |
| Millward, Glen | 0.98 | |
| Potocar, William P | 0.51 | |
| Rodriguez, Jesus (Jesse) | 0.27 | |
| Sanchez, Arthur | 0.75 | |
| Seiz, Ray | -1.50 | |
| Trevino, Bobby | -0.43 | |
| Veiga, Victor | -0.67 | |
| Viera, Ralph B. | 0.86 | |
| Zalewski, John | -0.43 | |
| MAXIMUM | 1.93 | |
| MINIMUM | 0.27 | |
| RANGE(MAX-MIN) | 1.652 | |
| MEAN | 0.000 | |
| STANDARD DEVIATION | 1.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Adams, Patrick

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | I2TOT | I3TOT | UCTOT | THTOT | ATTOT | G4TOT | I4TOT |
|----------------------------|--------|--------|--------|--------|--------|-------|--------|--------|--------|-------|
| A1-SEQUENCE III | -1.82 | 0.87 | 0.75 | -0.37 | -0.04 | 0.03 | 0.09 | 0.15 | | |
| A2-SEQUENCE III | 0.28 | -0.81 | 0.66 | -0.12 | -1.32 | 0.68 | -0.27 | -0.25 | | |
| A3-SEQUENCE III | -1.47 | -0.13 | -0.13 | 0.24 | -0.18 | 0.85 | -0.95 | -0.03 | | |
| A4-SEQUENCE III | -1.71 | 0.37 | -1.42 | -0.48 | -1.02 | 1.28 | -0.79 | -0.29 | | |
| A5-SQUARE CUT DIESEL | -0.50 | -0.53 | -0.61 | -1.65 | -0.74 | | | | -2.08 | 0.47 |
| A6-SEQUENCE III | -1.47 | -0.31 | 0.21 | -0.71 | -1.99 | -0.71 | 0.13 | 0.14 | | |
| A7-SQUARE CUT DIESEL | -0.79 | -1.63 | -0.95 | -1.08 | 0.24 | | | | -0.23 | -0.36 |
| A8-FIELD PISTON | 0.79 | -1.36 | 0.42 | -1.23 | 0.14 | | 1.02 | 0.47 | | |
| B1-SEQUENCE III | | | | | | | | | | |
| B2-SEQUENCE III | | | | | | | | | | |
| B3-SEQUENCE III | | | | | | | | | | |
| B4-SEQUENCE III | | | | | | | | | | |
| B5-SQUARE CUT DIESEL | | | | | | | | | | |
| B6-SEQUENCE III | | | | | | | | | | |
| B7-SQUARE CUT DIESEL | | | | | | | | | | |
| B8-FIELD PISTON | | | | | | | | | | |
| C1-SEQUENCE III | | | | | | | | | | |
| C2-SEQUENCE III | | | | | | | | | | |
| C3-SEQUENCE III | | | | | | | | | | |
| C4-SEQUENCE III | | | | | | | | | | |
| C5-SQUARE CUT DIESEL | | | | | | | | | | |
| C6-SEQUENCE III | | | | | | | | | | |
| C7-SQUARE CUT DIESEL | | | | | | | | | | |
| C8-FIELD PISTON | | | | | | | | | | |
| CAL-A-CAL. SEQ. III PISTON | -1.67 | -0.73 | 1.11 | 1.11 | 0.04 | 2.11 | -0.44 | -0.09 | | |
| CAL-B-CAL. SEQ. III PISTON | -0.92 | 0.33 | 0.12 | -0.79 | 0.42 | 2.05 | -0.08 | -0.12 | | |
| CAL-C-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-D-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-M-CAL. DV4 PISTON | 0.67 | -0.69 | 0.11 | 0.83 | -1.35 | | | | | |
| CAL-T-CAL. FIELD PISTON | -1.07 | -1.39 | -0.69 | 0.32 | -0.23 | | 0.91 | -0.47 | | |
| X1-DV4 PISTON | 0.77 | -0.98 | -1.23 | -0.69 | -2.41 | | | | | |
| Y1-DV4 PISTON | 1.06 | -1.25 | -1.53 | 0.02 | -3.09 | | | | | |
| Z1-DV4 PISTON | | | | | | | | | | |
| MAXIMUM | -1.82 | -1.63 | -1.53 | -1.65 | -3.09 | 2.11 | 1.02 | 0.47 | -2.08 | 0.47 |
| MINIMUM | 0.28 | -0.13 | 0.11 | 0.02 | -0.04 | 0.03 | -0.08 | -0.03 | -0.23 | -0.36 |
| RANGE(MAX-MIN) | -2.100 | -1.500 | -1.640 | -1.670 | -3.050 | 2.080 | 1.100 | 0.500 | -1.850 | 0.830 |
| MEAN | -0.561 | -0.589 | -0.227 | -0.329 | -0.824 | 0.899 | -0.042 | -0.054 | -1.155 | 0.055 |
| STANDARD DEVIATION | 1.063 | 0.743 | 0.850 | 0.782 | 1.085 | 1.027 | 0.678 | 0.280 | 1.308 | 0.587 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Aguirre, Nancy P

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT | G4TOT | L4TOT |
|----------------------------|--------|--------|--------|-------|--------|-------|--------|--------|-------|-------|
| A1-SEQUENCE III | 0.44 | -0.50 | -0.10 | 1.01 | 0.26 | 0.61 | -0.37 | -0.30 | | |
| A2-SEQUENCE III | -0.64 | -0.94 | -0.42 | 1.50 | -0.20 | 0.48 | -1.30 | -0.09 | | |
| A3-SEQUENCE III | | | | | | | | | | |
| A4-SEQUENCE III | | | | | | | | | | |
| A5-SQUARE CUT DIESEL | | | | | | | | | | |
| A6-SEQUENCE III | | | | | | | | | | |
| A7-SQUARE CUT DIESEL | | | | | | | | | | |
| A8-FIELD PISTON | | | | | | | | | | |
| B1-SEQUENCE III | -0.29 | -0.95 | -0.59 | 0.10 | -0.16 | 0.34 | -2.11 | -0.31 | | |
| B2-SEQUENCE III | 0.48 | -0.15 | 0.01 | -0.09 | 1.12 | 0.37 | -1.34 | -0.61 | | |
| B3-SEQUENCE III | -0.45 | 0.11 | -1.19 | 0.34 | -0.52 | 0.24 | -2.02 | -0.26 | | |
| B4-SEQUENCE III | -0.80 | -1.05 | -1.84 | 0.02 | 0.08 | 0.25 | -1.76 | -1.54 | | |
| B5-SQUARE CUT DIESEL | | | | | | | | | | |
| B6-SEQUENCE III | -1.04 | 0.70 | -0.58 | 1.18 | -0.12 | 0.16 | -0.82 | -0.99 | | |
| B7-SQUARE CUT DIESEL | | | | | | | | | | |
| B8-FIELD PISTON | | | | | | | | | | |
| C1-SEQUENCE III | | | | | | | | | | |
| C2-SEQUENCE III | | | | | | | | | | |
| C3-SEQUENCE III | | | | | | | | | | |
| C4-SEQUENCE III | | | | | | | | | | |
| C5-SQUARE CUT DIESEL | | | | | | | | | | |
| C6-SEQUENCE III | | | | | | | | | | |
| C7-SQUARE CUT DIESEL | | | | | | | | | | |
| C8-FIELD PISTON | | | | | | | | | | |
| CAL-A-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-B-CAL. SEQ. III PISTON | 0.14 | -0.67 | -3.02 | -0.47 | 0.07 | -0.45 | -0.50 | -0.02 | | |
| CAL-C-CAL. SEQ. III PISTON | -0.27 | 0.17 | 0.00 | -0.28 | -2.00 | 0.51 | -0.53 | 0.10 | | |
| CAL-D-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-M-CAL. DV4 PISTON | 1.09 | 0.00 | 0.26 | 1.97 | -0.21 | | | | | |
| CAL-T-CAL. FIELD PISTON | | | | | | | | | | |
| X1-DV4 PISTON | | | | | | | | | | |
| Y1-DV4 PISTON | -1.77 | -0.05 | -0.35 | -0.33 | -0.29 | | | | | |
| Z1-DV4 PISTON | | | | | | | | | | |
| MAXIMUM | -1.77 | -1.05 | -3.02 | 1.97 | -2.00 | 0.61 | -2.11 | -1.54 | | |
| MINIMUM | 0.14 | 0.00 | 0.00 | 0.02 | 0.07 | 0.16 | -0.37 | -0.02 | | |
| RANGE(MAX-MIN) | -1.910 | -1.050 | -3.020 | 1.950 | -2.070 | 0.450 | -1.740 | -1.520 | | |
| MEAN | -0.283 | -0.303 | -0.711 | 0.450 | -0.179 | 0.279 | -1.194 | -0.447 | | |
| STANDARD DEVIATION | 0.798 | 0.560 | 0.971 | 0.828 | 0.739 | 0.309 | 0.672 | 0.524 | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Avis, Steven

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | I2TOT | L3TOT | UCTOT | THTOT | ATTOT | G4TOT | L4TOT | |
|----------------------------|-------|--------|--------|--------|--------|--------|--------|-------|-------|-------|--|
| A1-SEQUENCE III | | | | | | | | | | | |
| A2-SEQUENCE III | | | | | | | | | | | |
| A3-SEQUENCE III | | | | | | | | | | | |
| A4-SEQUENCE III | | | | | | | | | | | |
| A5-SQUARE CUT DIESEL | | | | | | | | | | | |
| A6-SEQUENCE III | | | | | | | | | | | |
| A7-SQUARE CUT DIESEL | | | | | | | | | | | |
| A8-FIELD PISTON | | | | | | | | | | | |
| B1-SEQUENCE III | 0.86 | 0.67 | 0.85 | -0.96 | -1.55 | 0.53 | 0.96 | 0.75 | | | |
| B2-SEQUENCE III | -0.46 | -0.32 | -0.24 | -0.48 | -0.20 | 1.85 | -1.06 | 0.75 | | | |
| B3-SEQUENCE III | 0.48 | 0.11 | -2.25 | -0.91 | -0.95 | -0.60 | 1.01 | 0.90 | | | |
| B4-SEQUENCE III | 0.00 | -0.14 | 0.53 | -1.55 | -1.06 | -1.15 | 0.90 | 0.76 | | | |
| B5-SQUARE CUT DIESEL | -0.53 | -0.63 | 0.22 | 0.32 | 1.57 | | | | 0.96 | 1.33 | |
| B6-SEQUENCE III | 0.58 | -0.11 | 0.68 | -1.76 | -0.47 | -0.79 | -0.11 | 1.33 | | | |
| B7-SQUARE CUT DIESEL | -0.20 | -0.91 | -0.75 | -0.96 | 0.68 | | | | 1.16 | 0.79 | |
| B8-FIELD PISTON | -0.60 | -1.80 | -0.41 | -1.11 | -0.66 | | -0.20 | -0.24 | | | |
| C1-SEQUENCE III | -0.11 | 0.70 | 0.20 | -0.86 | -0.48 | -0.36 | 0.77 | 0.76 | | | |
| C2-SEQUENCE III | 1.66 | 0.43 | 0.06 | -1.65 | -0.56 | -0.13 | -0.38 | 0.26 | | | |
| C3-SEQUENCE III | 0.61 | -0.47 | 0.56 | -1.64 | -0.95 | 0.84 | -0.03 | 0.49 | | | |
| C4-SEQUENCE III | 1.06 | 0.36 | 0.81 | -1.26 | -0.88 | -0.93 | 0.31 | 0.83 | | | |
| C5-SQUARE CUT DIESEL | -1.12 | -0.53 | 1.01 | -0.84 | 1.71 | | | | 0.08 | 1.32 | |
| C6-SEQUENCE III | 1.03 | 0.33 | 1.04 | -1.71 | -1.19 | -0.45 | 0.56 | 0.84 | | | |
| C7-SQUARE CUT DIESEL | -0.16 | 0.51 | 0.30 | -0.16 | 1.19 | | | | 0.58 | 1.05 | |
| C8-FIELD PISTON | 0.88 | -1.57 | -1.09 | -1.37 | -1.17 | | 0.44 | 0.12 | | | |
| CAL-A-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-B-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-C-CAL. SEQ. III PISTON | -0.91 | 0.61 | 0.36 | 0.87 | 0.68 | -0.50 | 0.20 | 1.05 | | | |
| CAL-D-CAL. SEQ. III PISTON | -1.03 | 1.75 | 0.42 | -0.36 | -0.31 | -1.37 | -0.15 | 1.10 | | | |
| CAL-M-CAL. DV4 PISTON | -0.96 | -0.37 | -0.12 | -1.12 | 0.18 | | | | | | |
| CAL-T-CAL. FIELD PISTON | -0.53 | -1.13 | -0.53 | -1.11 | 0.28 | | 0.12 | -0.05 | | | |
| X1-DV4 PISTON | 0.77 | -0.41 | 0.39 | -0.03 | 0.80 | | | | | | |
| Y1-DV4 PISTON | | | | | | | | | | | |
| Z1-DV4 PISTON | | | | | | | | | | | |
| MAXIMUM | 1.66 | -1.80 | -2.25 | -1.76 | 1.71 | 1.85 | -1.06 | 1.33 | 1.16 | 1.33 | |
| MINIMUM | 0.00 | 0.11 | 0.06 | -0.03 | 0.18 | -0.13 | -0.03 | -0.05 | 0.08 | 0.79 | |
| RANGE(MAX-MIN) | 1.660 | -1.910 | -2.310 | -1.730 | 1.530 | 1.980 | -1.030 | 1.380 | 1.080 | 0.540 | |
| MEAN | 0.063 | -0.139 | 0.097 | -0.888 | -0.159 | -0.255 | 0.223 | 0.643 | 0.695 | 1.123 | |
| STANDARD DEVIATION | 0.812 | 0.831 | 0.785 | 0.701 | 0.953 | 0.918 | 0.573 | 0.442 | 0.475 | 0.257 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Barrera, Tony

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT | G4TOT | L4TOT |
|----------------------------|--------|--------|--------|--------|--------|-------|--------|-------|-------|-------|
| A1-SEQUENCE III | -1.23 | 0.01 | -0.88 | 0.41 | -0.72 | -0.28 | -0.22 | -0.52 | | |
| A2-SEQUENCE III | -0.58 | -0.68 | 0.07 | -0.93 | -0.55 | -0.07 | -0.73 | 0.88 | | |
| A3-SEQUENCE III | -0.74 | -0.29 | -0.90 | -0.20 | 0.13 | -0.26 | -0.37 | -0.19 | | |
| A4-SEQUENCE III | -0.12 | 0.37 | -0.32 | 0.10 | -0.56 | 0.47 | -2.13 | 1.27 | | |
| A5-SQUARE CUT DIESEL | | | | | | | | | | |
| A6-SEQUENCE III | -0.58 | 1.10 | -0.74 | -0.85 | -0.71 | -0.03 | -0.73 | -1.28 | | |
| A7-SQUARE CUT DIESEL | | | | | | | | | | |
| A8-FIELD PISTON | | | | | | | | | | |
| B1-SEQUENCE III | -0.79 | 0.67 | -0.16 | -0.40 | -0.77 | -0.01 | 0.07 | -0.10 | | |
| B2-SEQUENCE III | 0.07 | -0.32 | -1.19 | -0.83 | 0.18 | -0.75 | -1.49 | 0.17 | | |
| B3-SEQUENCE III | | | | | | | | | | |
| B4-SEQUENCE III | -0.52 | -0.92 | -2.41 | -0.42 | -0.17 | 0.26 | 0.69 | 0.49 | | |
| B5-SQUARE CUT DIESEL | | | | | | | | | | |
| B6-SEQUENCE III | -1.11 | 0.70 | -0.54 | -0.35 | -0.86 | -0.11 | -1.08 | -1.13 | | |
| B7-SQUARE CUT DIESEL | | | | | | | | | | |
| B8-FIELD PISTON | | | | | | | | | | |
| C1-SEQUENCE III | | | | | | | | | | |
| C2-SEQUENCE III | | | | | | | | | | |
| C3-SEQUENCE III | | | | | | | | | | |
| C4-SEQUENCE III | | | | | | | | | | |
| C5-SQUARE CUT DIESEL | | | | | | | | | | |
| C6-SEQUENCE III | | | | | | | | | | |
| C7-SQUARE CUT DIESEL | | | | | | | | | | |
| C8-FIELD PISTON | | | | | | | | | | |
| CAL-A-CAL. SEQ. III PISTON | -0.21 | -0.50 | 0.19 | -0.28 | 3.28 | -0.05 | 0.38 | 1.42 | | |
| CAL-B-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-C-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-D-CAL. SEQ. III PISTON | -0.47 | -0.96 | -1.65 | -0.01 | -1.34 | 1.28 | -0.76 | -0.63 | | |
| CAL-M-CAL. DV4 PISTON | -0.89 | -0.14 | 0.36 | 1.21 | 0.72 | | | | | |
| CAL-T-CAL. FIELD PISTON | 0.89 | 0.69 | 0.10 | -0.08 | -0.39 | | 0.47 | 0.36 | | |
| X1-DV4 PISTON | 0.77 | 0.34 | 0.88 | 0.65 | 0.63 | | | | | |
| Y1-DV4 PISTON | 0.00 | -1.25 | 0.63 | -0.46 | 0.38 | | | | | |
| Z1-DV4 PISTON | | | | | | | | | | |
| MAXIMUM | -1.23 | -1.25 | -2.41 | 1.21 | 3.28 | 1.28 | -2.13 | 1.42 | | |
| MINIMUM | 0.00 | 0.01 | 0.07 | -0.01 | 0.13 | -0.01 | 0.07 | -0.10 | | |
| RANGE(MAX-MIN) | -1.230 | -1.260 | -2.480 | 1.220 | 3.150 | 1.290 | -2.200 | 1.520 | | |
| MEAN | -0.367 | -0.079 | -0.437 | -0.163 | -0.050 | 0.041 | -0.492 | 0.062 | | |
| STANDARD DEVIATION | 0.615 | 0.709 | 0.886 | 0.582 | 1.095 | 0.514 | 0.837 | 0.873 | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Cales, Jonathon

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT | G4TOT | L4TOT |
|----------------------------|-------|--------|--------|--------|-------|-------|--------|-------|-------|--------|
| A1-SEQUENCE III | | | | | | | | | | |
| A2-SEQUENCE III | | | | | | | | | | |
| A3-SEQUENCE III | | | | | | | | | | |
| A4-SEQUENCE III | 0.51 | 0.37 | 0.62 | 0.57 | 0.89 | 0.10 | 0.15 | 0.49 | | |
| A5-SQUARE CUT DIESEL | | | | | | | | | | |
| A6-SEQUENCE III | | | | | | | | | | |
| A7-SQUARE CUT DIESEL | | | | | | | | | | |
| A8-FIELD PISTON | | | | | | | | | | |
| B1-SEQUENCE III | 0.74 | -0.95 | 0.35 | -0.90 | 0.57 | 0.27 | 0.47 | 0.75 | | |
| B2-SEQUENCE III | -0.29 | -0.15 | -2.15 | -0.61 | -0.11 | -1.12 | 0.27 | 0.75 | | |
| B3-SEQUENCE III | 0.60 | 0.11 | 0.37 | -0.75 | 0.42 | 1.45 | -0.32 | 0.07 | | |
| B4-SEQUENCE III | 0.87 | -0.14 | 0.49 | -0.59 | 0.99 | 0.98 | -1.50 | 0.76 | | |
| B5-SQUARE CUT DIESEL | 1.98 | -1.35 | -1.17 | -0.84 | -0.19 | | | | -0.98 | -0.83 |
| B6-SEQUENCE III | -0.15 | -0.11 | 0.28 | -0.63 | 0.30 | -0.09 | -0.43 | 1.33 | | |
| B7-SQUARE CUT DIESEL | 1.23 | -0.40 | 1.35 | -0.73 | 0.24 | | | | 1.16 | -1.05 |
| B8-FIELD PISTON | 0.05 | 0.26 | 1.16 | 2.20 | -0.52 | | -1.42 | -0.19 | | |
| C1-SEQUENCE III | | | | | | | | | | |
| C2-SEQUENCE III | | | | | | | | | | |
| C3-SEQUENCE III | | | | | | | | | | |
| C4-SEQUENCE III | | | | | | | | | | |
| C5-SQUARE CUT DIESEL | | | | | | | | | | |
| C6-SEQUENCE III | | | | | | | | | | |
| C7-SQUARE CUT DIESEL | | | | | | | | | | |
| C8-FIELD PISTON | | | | | | | | | | |
| CAL-A-CAL. SEQ. III PISTON | 0.50 | -0.78 | -1.20 | -1.38 | -0.68 | 0.61 | 0.32 | -0.09 | | |
| CAL-B-CAL. SEQ. III PISTON | -0.39 | -0.67 | -1.05 | 0.60 | -0.29 | -0.85 | -1.35 | 0.40 | | |
| CAL-C-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-D-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-M-CAL. DV4 PISTON | -0.54 | 0.41 | 0.49 | -0.69 | 1.30 | | | | | |
| CAL-T-CAL. FIELD PISTON | 0.49 | -0.09 | -0.69 | 1.01 | -0.51 | | -0.96 | -0.66 | | |
| X1-DV4 PISTON | | | | | | | | | | |
| Y1-DV4 PISTON | 0.35 | -0.85 | 0.52 | -0.30 | 0.86 | | | | | |
| Z1-DV4 PISTON | 1.00 | 0.32 | -0.75 | 2.23 | 0.44 | | | | | |
| MAXIMUM | 1.98 | -1.35 | -2.15 | 2.23 | 1.30 | 1.45 | -1.50 | 1.33 | 1.16 | -1.05 |
| MINIMUM | 0.05 | -0.09 | 0.28 | -0.30 | -0.11 | -0.09 | 0.15 | 0.07 | -0.98 | -0.83 |
| RANGE(MAX-MIN) | 1.930 | -1.260 | -2.430 | 2.530 | 1.410 | 1.540 | -1.650 | 1.260 | 2.140 | -0.220 |
| MEAN | 0.463 | -0.268 | -0.092 | -0.054 | 0.247 | 0.169 | -0.477 | 0.361 | 0.090 | -0.940 |
| STANDARD DEVIATION | 0.671 | 0.544 | 1.003 | 1.124 | 0.612 | 0.868 | 0.778 | 0.582 | 1.513 | 0.156 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Campbell, Bryan

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT | G4TOT | L4TOT |
|----------------------------|-------|-------|--------|-------|--------|--------|--------|--------|--------|--------|
| A1-SEQUENCE III | 2.28 | 1.56 | -1.53 | -1.33 | 3.37 | -0.48 | 0.79 | 0.15 | | |
| A2-SEQUENCE III | 0.88 | 2.22 | -1.46 | 1.10 | 1.50 | -0.33 | -0.96 | -1.85 | | |
| A3-SEQUENCE III | -0.12 | 1.88 | -0.62 | -0.11 | -0.24 | -0.57 | -1.96 | -2.73 | | |
| A4-SEQUENCE III | 0.51 | 0.59 | 0.26 | 3.01 | -1.45 | -1.10 | 0.55 | -2.16 | | |
| A5-SQUARE CUT DIESEL | 1.13 | 1.61 | -1.45 | 1.46 | -0.84 | | | | -0.09 | -0.57 |
| A6-SEQUENCE III | 2.00 | 0.68 | -1.31 | 0.54 | -0.23 | 1.24 | -2.01 | -0.93 | | |
| A7-SQUARE CUT DIESEL | 1.96 | -1.20 | -1.36 | -1.57 | -2.22 | | | | -1.82 | -1.61 |
| A8-FIELD PISTON | | | | | | | | | | |
| B1-SEQUENCE III | | | | | | | | | | |
| B2-SEQUENCE III | | | | | | | | | | |
| B3-SEQUENCE III | | | | | | | | | | |
| B4-SEQUENCE III | | | | | | | | | | |
| B5-SQUARE CUT DIESEL | | | | | | | | | | |
| B6-SEQUENCE III | | | | | | | | | | |
| B7-SQUARE CUT DIESEL | | | | | | | | | | |
| B8-FIELD PISTON | | | | | | | | | | |
| C1-SEQUENCE III | | | | | | | | | | |
| C2-SEQUENCE III | | | | | | | | | | |
| C3-SEQUENCE III | | | | | | | | | | |
| C4-SEQUENCE III | | | | | | | | | | |
| C5-SQUARE CUT DIESEL | | | | | | | | | | |
| C6-SEQUENCE III | | | | | | | | | | |
| C7-SQUARE CUT DIESEL | | | | | | | | | | |
| C8-FIELD PISTON | | | | | | | | | | |
| CAL-A-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-B-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-C-CAL. SEQ. III PISTON | 0.85 | -1.06 | -2.30 | -0.92 | -1.25 | 1.20 | 0.03 | -0.16 | | |
| CAL-D-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-M-CAL. DV4 PISTON | -0.39 | 4.35 | 0.15 | -0.26 | 1.41 | | | | | |
| CAL-T-CAL. FIELD PISTON | 1.16 | 0.56 | 0.12 | 1.45 | -0.09 | | 0.03 | 0.97 | | |
| X1-DV4 PISTON | | | | | | | | | | |
| Y1-DV4 PISTON | | | | | | | | | | |
| Z1-DV4 PISTON | | | | | | | | | | |
| MAXIMUM | 2.28 | 4.35 | -2.30 | 3.01 | 3.37 | 1.24 | -2.01 | -2.73 | -1.82 | -1.61 |
| MINIMUM | -0.12 | 0.56 | 0.12 | -0.11 | -0.09 | -0.33 | 0.03 | 0.15 | -0.09 | -0.57 |
| RANGE(MAX-MIN) | 2.400 | 3.790 | -2.420 | 3.120 | 3.460 | 1.570 | -2.040 | -2.880 | -1.730 | -1.040 |
| MEAN | 1.026 | 1.119 | -0.950 | 0.337 | -0.004 | -0.007 | -0.504 | -0.959 | -0.955 | -1.090 |
| STANDARD DEVIATION | 0.886 | 1.619 | 0.875 | 1.446 | 1.667 | 0.985 | 1.151 | 1.352 | 1.223 | 0.735 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Caproni, David

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT | G4TOT | L4TOT | |
|----------------------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|--------|--|
| A1-SEQUENCE III | | | | | | | | | | | |
| A2-SEQUENCE III | | | | | | | | | | | |
| A3-SEQUENCE III | | | | | | | | | | | |
| A4-SEQUENCE III | | | | | | | | | | | |
| A5-SQUARE CUT DIESEL | | | | | | | | | | | |
| A6-SEQUENCE III | | | | | | | | | | | |
| A7-SQUARE CUT DIESEL | | | | | | | | | | | |
| A8-FIELD PISTON | | | | | | | | | | | |
| B1-SEQUENCE III | | | | | | | | | | | |
| B2-SEQUENCE III | | | | | | | | | | | |
| B3-SEQUENCE III | | | | | | | | | | | |
| B4-SEQUENCE III | | | | | | | | | | | |
| B5-SQUARE CUT DIESEL | | | | | | | | | | | |
| B6-SEQUENCE III | | | | | | | | | | | |
| B7-SQUARE CUT DIESEL | | | | | | | | | | | |
| B8-FIELD PISTON | | | | | | | | | | | |
| C1-SEQUENCE III | 0.44 | -0.93 | -1.69 | -0.40 | 0.73 | 1.27 | 0.18 | 0.76 | | | |
| C2-SEQUENCE III | 1.31 | 0.43 | -1.37 | 0.73 | 0.45 | -0.03 | -0.32 | 0.26 | | | |
| C3-SEQUENCE III | 0.42 | 0.68 | -0.19 | -0.02 | -0.47 | 0.84 | 0.87 | 0.49 | | | |
| C4-SEQUENCE III | 0.42 | -0.52 | -0.61 | -0.46 | 0.39 | 0.37 | 0.84 | 0.83 | | | |
| C5-SQUARE CUT DIESEL | 0.01 | -0.22 | 0.89 | 0.98 | 0.19 | | | | 0.08 | -0.27 | |
| C6-SEQUENCE III | 0.84 | 0.95 | 0.21 | 0.90 | 0.20 | -0.15 | -0.79 | 0.84 | | | |
| C7-SQUARE CUT DIESEL | -0.87 | 1.35 | 0.30 | 0.83 | -0.96 | | | | -0.26 | -1.28 | |
| C8-FIELD PISTON | -0.53 | -0.87 | 0.05 | 0.03 | 1.09 | | 0.22 | 2.21 | | | |
| CAL-A-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-B-CAL. SEQ. III PISTON | -0.58 | -0.27 | -0.07 | 0.38 | 0.20 | 1.16 | -1.01 | 0.40 | | | |
| CAL-C-CAL. SEQ. III PISTON | 0.24 | -0.48 | -1.34 | 0.17 | -1.25 | -0.25 | 0.26 | 0.70 | | | |
| CAL-D-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-M-CAL. DV4 PISTON | -0.96 | -0.14 | 0.50 | -0.45 | 1.09 | | | | | | |
| CAL-T-CAL. FIELD PISTON | -0.53 | 0.69 | -0.44 | 1.16 | -0.51 | | 0.03 | 1.33 | | | |
| X1-DV4 PISTON | 0.24 | -0.01 | 0.11 | -0.19 | 0.63 | | | | | | |
| Y1-DV4 PISTON | | | | | | | | | | | |
| Z1-DV4 PISTON | -1.97 | 0.50 | 1.09 | -0.31 | 0.24 | | | | | | |
| MAXIMUM | -1.97 | 1.35 | -1.69 | 1.16 | -1.25 | 1.27 | -1.01 | 2.21 | -0.26 | -1.28 | |
| MINIMUM | 0.01 | -0.01 | 0.05 | -0.02 | 0.19 | -0.03 | 0.03 | 0.26 | 0.08 | -0.27 | |
| RANGE(MAX-MIN) | -1.980 | 1.360 | -1.740 | 1.180 | -1.440 | 1.300 | -1.040 | 1.950 | -0.340 | -1.010 | |
| MEAN | -0.109 | 0.083 | -0.183 | 0.239 | 0.144 | 0.459 | 0.031 | 0.869 | -0.090 | -0.775 | |
| STANDARD DEVIATION | 0.849 | 0.694 | 0.834 | 0.583 | 0.708 | 0.634 | 0.647 | 0.590 | 0.240 | 0.714 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Castillo, George

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | I2TOT | I3TOT | UCTOT | THTOT | ATTOT | G4TOT | I4TOT | |
|----------------------------|-------|--------|-------|-------|--------|-------|--------|-------|-------|--------|--|
| A1-SEQUENCE III | 0.25 | 0.53 | 0.78 | 1.01 | -0.42 | 0.26 | 1.02 | 1.04 | | | |
| A2-SEQUENCE III | -0.17 | 0.11 | 0.91 | 0.69 | -0.32 | 0.62 | 0.82 | 1.36 | | | |
| A3-SEQUENCE III | 0.17 | 0.04 | 0.79 | 0.50 | 0.61 | 0.56 | 1.37 | 0.92 | | | |
| A4-SEQUENCE III | 0.51 | 0.37 | 1.35 | -0.13 | 0.10 | 0.52 | 0.82 | 1.27 | | | |
| A5-SQUARE CUT DIESEL | 0.79 | 0.91 | 2.00 | 0.68 | -1.31 | | | | 1.23 | -0.07 | |
| A6-SEQUENCE III | -0.50 | -0.17 | 0.50 | -1.17 | 0.60 | 0.14 | -0.58 | 1.03 | | | |
| A7-SQUARE CUT DIESEL | 0.53 | 0.28 | 0.03 | 0.79 | 0.50 | | | | -0.23 | -0.78 | |
| A8-FIELD PISTON | -0.79 | -0.38 | 0.88 | -0.38 | 1.57 | | -0.81 | -0.84 | | | |
| B1-SEQUENCE III | | | | | | | | | | | |
| B2-SEQUENCE III | | | | | | | | | | | |
| B3-SEQUENCE III | | | | | | | | | | | |
| B4-SEQUENCE III | | | | | | | | | | | |
| B5-SQUARE CUT DIESEL | | | | | | | | | | | |
| B6-SEQUENCE III | | | | | | | | | | | |
| B7-SQUARE CUT DIESEL | | | | | | | | | | | |
| B8-FIELD PISTON | | | | | | | | | | | |
| C1-SEQUENCE III | | | | | | | | | | | |
| C2-SEQUENCE III | | | | | | | | | | | |
| C3-SEQUENCE III | | | | | | | | | | | |
| C4-SEQUENCE III | | | | | | | | | | | |
| C5-SQUARE CUT DIESEL | | | | | | | | | | | |
| C6-SEQUENCE III | | | | | | | | | | | |
| C7-SQUARE CUT DIESEL | | | | | | | | | | | |
| C8-FIELD PISTON | | | | | | | | | | | |
| CAL-A-CAL. SEQ. III PISTON | 2.04 | 1.21 | 1.21 | 0.18 | -0.25 | -0.10 | -2.66 | 0.75 | | | |
| CAL-B-CAL. SEQ. III PISTON | -0.50 | -0.27 | 0.12 | -0.37 | 0.33 | 0.52 | 0.18 | 0.92 | | | |
| CAL-C-CAL. SEQ. III PISTON | -0.05 | -0.07 | -0.08 | -0.18 | -0.51 | 1.03 | -0.59 | -0.42 | | | |
| CAL-D-CAL. SEQ. III PISTON | -1.03 | -0.22 | -0.26 | 0.14 | -1.34 | 1.49 | 0.47 | -0.97 | | | |
| CAL-M-CAL. DV4 PISTON | 1.16 | -0.14 | -0.31 | 1.74 | -2.13 | | | | | | |
| CAL-T-CAL. FIELD PISTON | -0.12 | -1.13 | 3.46 | -1.01 | 0.43 | | 0.58 | -0.79 | | | |
| X1-DV4 PISTON | 0.51 | 0.03 | -0.04 | 0.47 | -0.15 | | | | | | |
| Y1-DV4 PISTON | 0.35 | 0.03 | -0.31 | -0.27 | -0.36 | | | | | | |
| Z1-DV4 PISTON | 0.74 | -1.33 | 0.61 | -0.46 | 0.36 | | | | | | |
| MAXIMUM | 2.04 | -1.33 | 3.46 | 1.74 | -2.13 | 1.49 | -2.66 | 1.36 | 1.23 | -0.78 | |
| MINIMUM | -0.05 | 0.03 | 0.03 | -0.13 | 0.10 | -0.10 | 0.18 | -0.42 | -0.23 | -0.07 | |
| RANGE(MAX-MIN) | 2.090 | -1.360 | 3.430 | 1.870 | -2.230 | 1.590 | -2.840 | 1.780 | 1.460 | -0.710 | |
| MEAN | 0.229 | -0.012 | 0.685 | 0.131 | -0.135 | 0.560 | 0.056 | 0.388 | 0.500 | -0.425 | |
| STANDARD DEVIATION | 0.751 | 0.621 | 0.969 | 0.744 | 0.879 | 0.474 | 1.150 | 0.930 | 1.032 | 0.502 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Cumberworth, Lee

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | I2TOT | L3TOT | UCTOT | THTOT | ATTOT | G4TOT | I4TOT | |
|----------------------------|--------|--------|-------|-------|--------|--------|-------|-------|-------|-------|--|
| A1-SEQUENCE III | | | | | | | | | | | |
| A2-SEQUENCE III | | | | | | | | | | | |
| A3-SEQUENCE III | | | | | | | | | | | |
| A4-SEQUENCE III | 0.51 | 0.37 | 0.62 | 0.57 | -1.18 | 0.01 | 1.76 | 0.65 | | | |
| A5-SQUARE CUT DIESEL | | | | | | | | | | | |
| A6-SEQUENCE III | | | | | | | | | | | |
| A7-SQUARE CUT DIESEL | | | | | | | | | | | |
| A8-FIELD PISTON | | | | | | | | | | | |
| B1-SEQUENCE III | -0.48 | 0.67 | 0.85 | 1.22 | -1.23 | 0.36 | 1.06 | 1.81 | | | |
| B2-SEQUENCE III | 0.07 | -1.01 | 0.75 | -0.56 | -1.36 | 0.09 | 0.62 | 1.73 | | | |
| B3-SEQUENCE III | 0.67 | 0.11 | -0.08 | -0.58 | -0.55 | -0.96 | 0.63 | 1.07 | | | |
| B4-SEQUENCE III | -0.57 | -0.92 | 0.94 | -0.15 | -1.21 | -1.22 | 0.74 | 1.16 | | | |
| B5-SQUARE CUT DIESEL | | | | | | | | | | | |
| B6-SEQUENCE III | | | | | | | | | | | |
| B7-SQUARE CUT DIESEL | | | | | | | | | | | |
| B8-FIELD PISTON | | | | | | | | | | | |
| C1-SEQUENCE III | 0.09 | 0.70 | 0.15 | -0.27 | -0.53 | 0.58 | 0.33 | -0.28 | | | |
| C2-SEQUENCE III | | | | | | | | | | | |
| C3-SEQUENCE III | | | | | | | | | | | |
| C4-SEQUENCE III | | | | | | | | | | | |
| C5-SQUARE CUT DIESEL | | | | | | | | | | | |
| C6-SEQUENCE III | | | | | | | | | | | |
| C7-SQUARE CUT DIESEL | | | | | | | | | | | |
| C8-FIELD PISTON | | | | | | | | | | | |
| CAL-A-CAL. SEQ. III PISTON | 0.03 | -0.36 | 0.09 | 0.27 | -0.99 | -1.42 | 1.08 | 0.41 | | | |
| CAL-B-CAL. SEQ. III PISTON | -0.84 | 1.33 | 0.20 | 0.81 | -0.33 | -1.63 | 2.01 | 0.92 | | | |
| CAL-C-CAL. SEQ. III PISTON | -0.67 | -0.68 | -0.36 | -0.11 | -0.17 | -0.64 | 0.99 | 0.70 | | | |
| CAL-D-CAL. SEQ. III PISTON | -0.02 | -0.47 | 0.18 | 0.21 | -0.72 | 0.03 | 1.47 | 1.61 | | | |
| CAL-M-CAL. DV4 PISTON | 0.45 | 0.37 | 0.11 | 1.45 | -0.21 | | | | | | |
| CAL-T-CAL. FIELD PISTON | | | | | | | | | | | |
| X1-DV4 PISTON | | | | | | | | | | | |
| Y1-DV4 PISTON | 0.35 | -1.05 | 0.37 | -0.36 | 0.96 | | | | | | |
| Z1-DV4 PISTON | 0.35 | 0.32 | -0.66 | 1.91 | 0.32 | | | | | | |
| MAXIMUM | -0.84 | 1.33 | 0.94 | 1.91 | -1.36 | -1.63 | 2.01 | 1.81 | | | |
| MINIMUM | -0.02 | 0.11 | -0.08 | -0.11 | -0.17 | 0.01 | 0.33 | -0.28 | | | |
| RANGE(MAX-MIN) | -0.820 | 1.220 | 1.020 | 2.020 | -1.190 | -1.640 | 1.680 | 2.090 | | | |
| MEAN | -0.005 | -0.048 | 0.243 | 0.339 | -0.554 | -0.480 | 1.069 | 0.978 | | | |
| STANDARD DEVIATION | 0.490 | 0.755 | 0.466 | 0.803 | 0.678 | 0.793 | 0.535 | 0.649 | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Foecking, Brian

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT | G4TOT | L4TOT | |
|----------------------------|--------|-------|-------|--------|--------|--------|--------|-------|-------|--------|--|
| A1-SEQUENCE III | | | | | | | | | | | |
| A2-SEQUENCE III | | | | | | | | | | | |
| A3-SEQUENCE III | | | | | | | | | | | |
| A4-SEQUENCE III | | | | | | | | | | | |
| A5-SQUARE CUT DIESEL | | | | | | | | | | | |
| A6-SEQUENCE III | | | | | | | | | | | |
| A7-SQUARE CUT DIESEL | | | | | | | | | | | |
| A8-FIELD PISTON | | | | | | | | | | | |
| B1-SEQUENCE III | | | | | | | | | | | |
| B2-SEQUENCE III | | | | | | | | | | | |
| B3-SEQUENCE III | | | | | | | | | | | |
| B4-SEQUENCE III | | | | | | | | | | | |
| B5-SQUARE CUT DIESEL | | | | | | | | | | | |
| B6-SEQUENCE III | | | | | | | | | | | |
| B7-SQUARE CUT DIESEL | | | | | | | | | | | |
| B8-FIELD PISTON | | | | | | | | | | | |
| C1-SEQUENCE III | -0.92 | 0.70 | -0.20 | -1.25 | -1.08 | -1.61 | -1.29 | -0.28 | | | |
| C2-SEQUENCE III | 0.08 | 0.43 | 0.34 | -0.72 | -1.13 | -0.86 | -0.76 | 0.07 | | | |
| C3-SEQUENCE III | 0.39 | -0.74 | 0.19 | 0.19 | -0.91 | -0.34 | -0.03 | -0.46 | | | |
| C4-SEQUENCE III | -0.90 | -0.57 | 1.14 | -1.23 | -1.75 | -0.03 | 0.05 | -0.18 | | | |
| C5-SQUARE CUT DIESEL | -1.20 | 0.48 | 1.05 | -1.09 | -0.75 | | | | 0.62 | -0.96 | |
| C6-SEQUENCE III | 0.09 | 0.95 | 0.74 | -0.89 | -0.80 | -1.32 | -0.31 | 0.84 | | | |
| C7-SQUARE CUT DIESEL | 0.24 | 0.89 | 1.19 | -0.03 | 0.90 | | | | 0.58 | 0.79 | |
| C8-FIELD PISTON | 0.04 | 0.66 | -1.17 | -0.38 | -0.66 | | -0.56 | 0.14 | | | |
| CAL-A-CAL. SEQ. III PISTON | 1.02 | 0.52 | -0.55 | -0.37 | -0.50 | -1.18 | -1.31 | 0.75 | | | |
| CAL-B-CAL. SEQ. III PISTON | -0.03 | 0.13 | 0.99 | -1.33 | -0.51 | -1.60 | 0.09 | -0.12 | | | |
| CAL-C-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-D-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-M-CAL. DV4 PISTON | -0.96 | -0.14 | 0.32 | -0.84 | -0.30 | | | | | | |
| CAL-T-CAL. FIELD PISTON | 0.83 | 0.95 | -0.81 | -0.35 | -0.56 | | -0.29 | -0.43 | | | |
| X1-DV4 PISTON | | | | | | | | | | | |
| Y1-DV4 PISTON | | | | | | | | | | | |
| Z1-DV4 PISTON | | | | | | | | | | | |
| MAXIMUM | -1.20 | 0.95 | 1.19 | -1.33 | -1.75 | -1.61 | -1.31 | 0.84 | 0.62 | -0.96 | |
| MINIMUM | -0.03 | 0.13 | 0.19 | -0.03 | -0.30 | -0.03 | -0.03 | 0.07 | 0.58 | 0.79 | |
| RANGE(MAX-MIN) | -1.170 | 0.820 | 1.000 | -1.300 | -1.450 | -1.580 | -1.280 | 0.770 | 0.040 | -1.750 | |
| MEAN | -0.110 | 0.355 | 0.269 | -0.691 | -0.671 | -0.991 | -0.490 | 0.037 | 0.600 | -0.085 | |
| STANDARD DEVIATION | 0.728 | 0.572 | 0.803 | 0.501 | 0.625 | 0.614 | 0.536 | 0.475 | 0.028 | 1.237 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Greenland, Paul

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT | G4TOT | L4TOT | |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--|
| A1-SEQUENCE III | 0.25 | 0.01 | 1.19 | -1.51 | 0.26 | 0.54 | 0.63 | 0.37 | | | |
| A2-SEQUENCE III | 1.56 | -0.28 | 0.38 | -1.33 | -0.44 | -1.34 | 0.59 | -0.25 | | | |
| A3-SEQUENCE III | 1.57 | -1.13 | 0.96 | -0.81 | -3.34 | -1.59 | -0.23 | -0.03 | | | |
| A4-SEQUENCE III | -0.12 | 0.37 | 1.21 | -0.71 | 0.65 | -2.88 | -1.32 | -0.29 | | | |
| A5-SQUARE CUT DIESEL | | | | | | | | | | | |
| A6-SEQUENCE III | 0.52 | -0.31 | 0.16 | -0.16 | 0.69 | -0.55 | 0.42 | -0.75 | | | |
| A7-SQUARE CUT DIESEL | | | | | | | | | | | |
| A8-FIELD PISTON | | | | | | | | | | | |
| B1-SEQUENCE III | -0.92 | 0.67 | -3.54 | 1.49 | 0.57 | -3.63 | -2.50 | -0.31 | | | |
| B2-SEQUENCE III | | | | | | | | | | | |
| B3-SEQUENCE III | | | | | | | | | | | |
| B4-SEQUENCE III | | | | | | | | | | | |
| B5-SQUARE CUT DIESEL | | | | | | | | | | | |
| B6-SEQUENCE III | | | | | | | | | | | |
| B7-SQUARE CUT DIESEL | | | | | | | | | | | |
| B8-FIELD PISTON | | | | | | | | | | | |
| C1-SEQUENCE III | | | | | | | | | | | |
| C2-SEQUENCE III | | | | | | | | | | | |
| C3-SEQUENCE III | | | | | | | | | | | |
| C4-SEQUENCE III | | | | | | | | | | | |
| C5-SQUARE CUT DIESEL | | | | | | | | | | | |
| C6-SEQUENCE III | | | | | | | | | | | |
| C7-SQUARE CUT DIESEL | | | | | | | | | | | |
| C8-FIELD PISTON | | | | | | | | | | | |
| CAL-A-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-B-CAL. SEQ. III PISTON | 1.93 | -1.28 | 0.01 | -0.90 | -0.07 | -0.67 | -0.33 | -0.12 | | | |
| CAL-C-CAL. SEQ. III PISTON | -0.19 | -0.02 | 0.82 | -0.32 | -0.03 | -0.81 | 0.48 | 0.27 | | | |
| CAL-D-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-M-CAL. DV4 PISTON | 2.08 | -0.64 | 0.47 | -0.79 | 0.42 | | | | | | |
| CAL-T-CAL. FIELD PISTON | -2.01 | -1.13 | -0.51 | 0.43 | -0.28 | | -0.59 | 0.23 | | | |
| X1-DV4 PISTON | -2.64 | 2.51 | 0.98 | 1.68 | 0.80 | | | | | | |
| Y1-DV4 PISTON | -1.41 | 0.63 | 0.94 | -0.27 | 0.48 | | | | | | |
| Z1-DV4 PISTON | | | | | | | | | | | |
| MAXIMUM | -2.64 | 2.51 | -3.54 | 1.68 | -3.34 | -3.63 | -2.50 | -0.75 | | | |
| MINIMUM | -0.12 | 0.01 | 0.01 | -0.16 | -0.03 | 0.54 | -0.23 | -0.03 | | | |
| RANGE(MAX-MIN) | -2.520 | 2.500 | -3.550 | 1.840 | -3.310 | -4.170 | -2.270 | -0.720 | | | |
| MEAN | 0.052 | -0.050 | 0.256 | -0.267 | -0.024 | -1.366 | -0.317 | -0.098 | | | |
| STANDARD DEVIATION | 1.571 | 1.046 | 1.304 | 1.010 | 1.119 | 1.340 | 1.046 | 0.353 | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Grundza, Richard

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT | G4TOT | L4TOT |
|----------------------------|--------|-------|--------|-------|-------|--------|--------|--------|-------|-------|
| A1-SEQUENCE III | | | | | | | | | | |
| A2-SEQUENCE III | -1.56 | 0.90 | -0.83 | -1.26 | 1.06 | 0.42 | -0.10 | -0.25 | | |
| A3-SEQUENCE III | -0.33 | 0.88 | 0.85 | -0.28 | -0.17 | -1.07 | -0.95 | -0.03 | | |
| A4-SEQUENCE III | 0.51 | -0.88 | -1.13 | -1.52 | -0.66 | -0.34 | -1.46 | -1.07 | | |
| A5-SQUARE CUT DIESEL | | | | | | | | | | |
| A6-SEQUENCE III | | | | | | | | | | |
| A7-SQUARE CUT DIESEL | | | | | | | | | | |
| A8-FIELD PISTON | | | | | | | | | | |
| B1-SEQUENCE III | -0.43 | 0.67 | 0.54 | 1.52 | 2.05 | -0.33 | -0.03 | -0.31 | | |
| B2-SEQUENCE III | 1.58 | 1.57 | -1.00 | 1.65 | -1.09 | -1.15 | -0.64 | -0.22 | | |
| B3-SEQUENCE III | | | | | | | | | | |
| B4-SEQUENCE III | -0.14 | 1.03 | 0.32 | 0.19 | 0.50 | 0.58 | -0.87 | -0.46 | | |
| B5-SQUARE CUT DIESEL | | | | | | | | | | |
| B6-SEQUENCE III | | | | | | | | | | |
| B7-SQUARE CUT DIESEL | | | | | | | | | | |
| B8-FIELD PISTON | | | | | | | | | | |
| C1-SEQUENCE III | | | | | | | | | | |
| C2-SEQUENCE III | | | | | | | | | | |
| C3-SEQUENCE III | | | | | | | | | | |
| C4-SEQUENCE III | | | | | | | | | | |
| C5-SQUARE CUT DIESEL | | | | | | | | | | |
| C6-SEQUENCE III | | | | | | | | | | |
| C7-SQUARE CUT DIESEL | | | | | | | | | | |
| C8-FIELD PISTON | | | | | | | | | | |
| CAL-A-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-B-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-C-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-D-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-M-CAL. DV4 PISTON | | | | | | | | | | |
| CAL-T-CAL. FIELD PISTON | | | | | | | | | | |
| X1-DV4 PISTON | | | | | | | | | | |
| Y1-DV4 PISTON | | | | | | | | | | |
| Z1-DV4 PISTON | | | | | | | | | | |
| MAXIMUM | 1.58 | 1.57 | -1.13 | 1.65 | 2.05 | -1.15 | -1.46 | -1.07 | | |
| MINIMUM | -0.14 | 0.67 | 0.32 | 0.19 | -0.17 | -0.33 | -0.03 | -0.03 | | |
| RANGE(MAX-MIN) | 1.720 | 0.900 | -1.450 | 1.460 | 2.220 | -0.820 | -1.430 | -1.040 | | |
| MEAN | -0.062 | 0.695 | -0.208 | 0.050 | 0.282 | -0.315 | -0.675 | -0.390 | | |
| STANDARD DEVIATION | 1.047 | 0.829 | 0.874 | 1.344 | 1.162 | 0.722 | 0.544 | 0.361 | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Hills, Barry

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT | G4TOT | L4TOT |
|----------------------------|--------|-------|-------|--------|--------|--------|-------|--------|--------|-------|
| A1-SEQUENCE III | | | | | | | | | | |
| A2-SEQUENCE III | | | | | | | | | | |
| A3-SEQUENCE III | | | | | | | | | | |
| A4-SEQUENCE III | | | | | | | | | | |
| A5-SQUARE CUT DIESEL | | | | | | | | | | |
| A6-SEQUENCE III | | | | | | | | | | |
| A7-SQUARE CUT DIESEL | | | | | | | | | | |
| A8-FIELD PISTON | | | | | | | | | | |
| B1-SEQUENCE III | 0.57 | 0.67 | 0.54 | 0.42 | -1.00 | 0.57 | 0.47 | -0.31 | | |
| B2-SEQUENCE III | -0.54 | -0.83 | 1.16 | -0.04 | -0.62 | 0.06 | 0.76 | -0.22 | | |
| B3-SEQUENCE III | -0.88 | 0.11 | 0.82 | -0.31 | -0.41 | -1.14 | 0.38 | 0.07 | | |
| B4-SEQUENCE III | -1.18 | -0.27 | 0.69 | -0.77 | -1.12 | -0.90 | 0.90 | 0.49 | | |
| B5-SQUARE CUT DIESEL | 0.58 | -0.09 | 0.56 | 0.15 | -1.66 | | | | 0.76 | 0.41 |
| B6-SEQUENCE III | -1.26 | 0.90 | 0.94 | -0.67 | 0.33 | -1.50 | 0.81 | 0.61 | | |
| B7-SQUARE CUT DIESEL | 0.03 | 0.04 | 0.30 | 0.60 | 0.14 | | | | -1.55 | 0.38 |
| B8-FIELD PISTON | 0.82 | 0.26 | -0.88 | -0.43 | -0.82 | | 0.08 | -0.53 | | |
| C1-SEQUENCE III | -1.44 | 0.70 | 1.73 | -0.07 | -0.48 | 0.46 | 0.47 | -0.28 | | |
| C2-SEQUENCE III | -0.97 | 0.43 | 1.91 | 0.08 | -0.21 | -1.38 | 1.31 | 0.26 | | |
| C3-SEQUENCE III | -0.97 | -0.90 | 0.62 | -0.80 | 0.05 | 0.03 | -0.03 | -0.46 | | |
| C4-SEQUENCE III | | | | | | | | | | |
| C5-SQUARE CUT DIESEL | | | | | | | | | | |
| C6-SEQUENCE III | | | | | | | | | | |
| C7-SQUARE CUT DIESEL | | | | | | | | | | |
| C8-FIELD PISTON | | | | | | | | | | |
| CAL-A-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-B-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-C-CAL. SEQ. III PISTON | 0.39 | -0.29 | 1.84 | -0.67 | 1.16 | -0.75 | 1.21 | 0.27 | | |
| CAL-D-CAL. SEQ. III PISTON | -0.14 | -0.22 | 1.03 | -0.65 | -0.31 | -1.80 | 0.93 | 0.23 | | |
| CAL-M-CAL. DV4 PISTON | | | | | | | | | | |
| CAL-T-CAL. FIELD PISTON | 0.28 | -0.22 | -0.87 | 0.59 | -0.36 | | -0.54 | -0.79 | | |
| X1-DV4 PISTON | | | | | | | | | | |
| Y1-DV4 PISTON | 1.77 | -0.09 | 0.19 | -1.36 | 0.22 | | | | | |
| Z1-DV4 PISTON | -0.77 | 2.70 | 0.29 | -0.78 | -1.23 | | | | | |
| MAXIMUM | 1.77 | 2.70 | 1.91 | -1.36 | -1.66 | -1.80 | 1.31 | -0.79 | -1.55 | 0.41 |
| MINIMUM | 0.03 | 0.04 | 0.19 | -0.04 | 0.05 | 0.03 | -0.03 | 0.07 | 0.76 | 0.38 |
| RANGE(MAX-MIN) | 1.740 | 2.660 | 1.720 | -1.320 | -1.710 | -1.830 | 1.340 | -0.860 | -2.310 | 0.030 |
| MEAN | -0.232 | 0.181 | 0.679 | -0.294 | -0.395 | -0.635 | 0.563 | -0.055 | -0.395 | 0.395 |
| STANDARD DEVIATION | 0.911 | 0.839 | 0.809 | 0.567 | 0.696 | 0.855 | 0.537 | 0.438 | 1.633 | 0.021 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Hurst, Kevin R.

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT | G4TOT | L4TOT | |
|----------------------------|--------|--------|--------|-------|--------|--------|--------|--------|--------|-------|--|
| A1-SEQUENCE III | 0.25 | -0.33 | -0.65 | 0.32 | -0.12 | -1.80 | 1.33 | 0.93 | | | |
| A2-SEQUENCE III | 1.08 | -1.33 | -0.17 | 1.23 | -1.91 | 0.65 | 1.16 | -0.25 | | | |
| A3-SEQUENCE III | 0.45 | -1.13 | -0.02 | 0.59 | -0.01 | 0.64 | 0.50 | -0.03 | | | |
| A4-SEQUENCE III | 0.51 | 0.37 | -1.42 | 0.92 | -1.78 | -0.50 | 1.09 | -0.29 | | | |
| A5-SQUARE CUT DIESEL | | | | | | | | | | | |
| A6-SEQUENCE III | -0.58 | -0.17 | -0.33 | 0.54 | -0.68 | -0.89 | 1.52 | 0.14 | | | |
| A7-SQUARE CUT DIESEL | | | | | | | | | | | |
| A8-FIELD PISTON | -1.58 | -0.05 | -0.71 | 1.61 | 0.04 | | -0.96 | -0.50 | | | |
| B1-SEQUENCE III | 0.46 | -0.95 | 0.35 | 0.34 | -0.97 | 0.56 | 0.47 | -0.31 | | | |
| B2-SEQUENCE III | -0.33 | -1.18 | 0.52 | 0.22 | -1.58 | 1.21 | 1.47 | -0.22 | | | |
| B3-SEQUENCE III | 0.48 | -1.16 | -0.08 | -0.08 | -0.78 | -0.20 | 1.01 | 0.07 | | | |
| B4-SEQUENCE III | -0.69 | -0.92 | 0.49 | 1.24 | -0.85 | -0.57 | 1.05 | 0.76 | | | |
| B5-SQUARE CUT DIESEL | | | | | | | | | | | |
| B6-SEQUENCE III | 0.76 | -0.72 | 0.09 | 0.47 | -0.83 | -0.21 | 1.07 | 0.61 | | | |
| B7-SQUARE CUT DIESEL | | | | | | | | | | | |
| B8-FIELD PISTON | -0.73 | 0.26 | -0.62 | -0.17 | -0.64 | | -1.42 | -1.10 | | | |
| C1-SEQUENCE III | -0.16 | -0.93 | 0.18 | 0.45 | -0.37 | 1.02 | 0.33 | -0.28 | | | |
| C2-SEQUENCE III | -0.25 | 0.43 | 0.20 | 1.18 | -0.65 | -0.86 | 0.98 | 0.26 | | | |
| C3-SEQUENCE III | -0.05 | -0.34 | 0.68 | 0.90 | -0.87 | 0.26 | -0.93 | -0.46 | | | |
| C4-SEQUENCE III | 0.72 | -1.55 | 0.22 | 0.26 | -0.49 | -0.41 | 1.02 | -0.18 | | | |
| C5-SQUARE CUT DIESEL | 0.87 | 0.37 | 0.13 | -0.87 | -0.29 | | | | 0.08 | 0.21 | |
| C6-SEQUENCE III | -0.33 | -0.89 | -0.21 | 1.07 | -0.84 | -0.47 | 1.14 | -1.01 | | | |
| C7-SQUARE CUT DIESEL | 1.22 | -0.72 | -1.49 | 0.28 | 0.09 | | | | -1.96 | -0.14 | |
| C8-FIELD PISTON | 1.02 | -0.45 | -0.20 | 0.20 | 1.73 | | -0.30 | -0.06 | | | |
| CAL-A-CAL. SEQ. III PISTON | 0.03 | 0.38 | -0.15 | -1.17 | -0.73 | 1.22 | -0.14 | -2.61 | | | |
| CAL-B-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-C-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-D-CAL. SEQ. III PISTON | -0.02 | -0.14 | -1.04 | 1.21 | 0.14 | 0.07 | 0.86 | -0.02 | | | |
| CAL-M-CAL. DV4 PISTON | -0.75 | -0.46 | -0.03 | 0.64 | -0.86 | | | | | | |
| CAL-T-CAL. FIELD PISTON | 0.01 | -0.09 | -0.13 | 0.31 | -0.29 | | -1.59 | -1.79 | | | |
| X1-DV4 PISTON | 0.77 | -0.13 | -1.05 | -1.29 | -2.04 | | | | | | |
| Y1-DV4 PISTON | | | | | | | | | | | |
| Z1-DV4 PISTON | 0.57 | 0.50 | -1.29 | -0.46 | -0.17 | | | | | | |
| MAXIMUM | -1.58 | -1.55 | -1.49 | 1.61 | -2.04 | -1.80 | -1.59 | -2.61 | -1.96 | 0.21 | |
| MINIMUM | 0.01 | -0.05 | -0.02 | -0.08 | -0.01 | 0.07 | -0.14 | -0.02 | 0.08 | -0.14 | |
| RANGE(MAX-MIN) | -1.590 | -1.500 | -1.470 | 1.690 | -2.030 | -1.870 | -1.450 | -2.590 | -2.040 | 0.350 | |
| MEAN | 0.143 | -0.436 | -0.259 | 0.382 | -0.606 | -0.016 | 0.460 | -0.302 | -0.940 | 0.035 | |
| STANDARD DEVIATION | 0.682 | 0.611 | 0.605 | 0.736 | 0.762 | 0.830 | 0.966 | 0.810 | 1.442 | 0.247 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Kobrinetz, Joaquin J.

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT | G4TOT | L4TOT | |
|----------------------------|-------|--------|-------|--------|-------|-------|-------|--------|-------|-------|--|
| A1-SEQUENCE III | | | | | | | | | | | |
| A2-SEQUENCE III | | | | | | | | | | | |
| A3-SEQUENCE III | 0.60 | 0.04 | 1.12 | 0.15 | 0.14 | 1.20 | 0.64 | 0.45 | | | |
| A4-SEQUENCE III | 0.51 | 0.37 | 1.57 | -0.48 | 0.34 | -0.11 | 1.09 | 0.34 | | | |
| A5-SQUARE CUT DIESEL | | | | | | | | | | | |
| A6-SEQUENCE III | | | | | | | | | | | |
| A7-SQUARE CUT DIESEL | | | | | | | | | | | |
| A8-FIELD PISTON | | | | | | | | | | | |
| B1-SEQUENCE III | | | | | | | | | | | |
| B2-SEQUENCE III | | | | | | | | | | | |
| B3-SEQUENCE III | | | | | | | | | | | |
| B4-SEQUENCE III | | | | | | | | | | | |
| B5-SQUARE CUT DIESEL | | | | | | | | | | | |
| B6-SEQUENCE III | | | | | | | | | | | |
| B7-SQUARE CUT DIESEL | | | | | | | | | | | |
| B8-FIELD PISTON | | | | | | | | | | | |
| C1-SEQUENCE III | | | | | | | | | | | |
| C2-SEQUENCE III | | | | | | | | | | | |
| C3-SEQUENCE III | | | | | | | | | | | |
| C4-SEQUENCE III | | | | | | | | | | | |
| C5-SQUARE CUT DIESEL | | | | | | | | | | | |
| C6-SEQUENCE III | | | | | | | | | | | |
| C7-SQUARE CUT DIESEL | | | | | | | | | | | |
| C8-FIELD PISTON | | | | | | | | | | | |
| CAL-A-CAL. SEQ. III PISTON | 0.03 | -0.18 | 0.70 | 0.18 | 0.19 | 1.03 | 0.61 | 0.41 | | | |
| CAL-B-CAL. SEQ. III PISTON | 0.48 | 0.13 | 0.36 | -0.90 | -0.02 | 0.28 | 0.61 | 0.61 | | | |
| CAL-C-CAL. SEQ. III PISTON | -0.14 | 0.26 | -0.30 | -0.25 | -0.30 | -0.67 | 1.44 | 0.53 | | | |
| CAL-D-CAL. SEQ. III PISTON | 0.42 | 0.52 | -0.47 | 0.71 | 1.05 | 1.18 | 0.50 | 0.66 | | | |
| CAL-M-CAL. DV4 PISTON | 1.30 | -0.55 | 0.36 | -1.03 | 0.76 | | | | | | |
| CAL-T-CAL. FIELD PISTON | -0.66 | 0.30 | -0.26 | 0.07 | -0.38 | | -0.82 | -1.32 | | | |
| X1-DV4 PISTON | | | | | | | | | | | |
| Y1-DV4 PISTON | | | | | | | | | | | |
| Z1-DV4 PISTON | | | | | | | | | | | |
| MAXIMUM | 1.30 | -0.55 | 1.57 | -1.03 | 1.05 | 1.20 | 1.44 | -1.32 | | | |
| MINIMUM | 0.03 | 0.04 | -0.26 | 0.07 | -0.02 | -0.11 | 0.50 | 0.34 | | | |
| RANGE(MAX-MIN) | 1.270 | -0.590 | 1.830 | -1.100 | 1.070 | 1.310 | 0.940 | -1.660 | | | |
| MEAN | 0.318 | 0.111 | 0.385 | -0.194 | 0.223 | 0.485 | 0.581 | 0.240 | | | |
| STANDARD DEVIATION | 0.581 | 0.342 | 0.723 | 0.589 | 0.491 | 0.777 | 0.704 | 0.697 | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Kraemer, Vernon

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT | G4TOT | L4TOT |
|----------------------------|-------|-------|--------|-------|-------|-------|--------|--------|--------|--------|
| A1-SEQUENCE III | 0.84 | -1.36 | -1.03 | -1.24 | -0.50 | 2.80 | -0.68 | 0.93 | | |
| A2-SEQUENCE III | | | | | | | | | | |
| A3-SEQUENCE III | 1.62 | 0.54 | -2.97 | -0.98 | -0.43 | 0.21 | -0.08 | -0.35 | | |
| A4-SEQUENCE III | -2.98 | -1.34 | -1.57 | 0.10 | 1.78 | 1.42 | -0.12 | 0.03 | | |
| A5-SQUARE CUT DIESEL | | | | | | | | | | |
| A6-SEQUENCE III | 1.75 | -2.29 | -0.66 | 0.68 | 1.75 | 1.93 | -1.01 | -0.75 | | |
| A7-SQUARE CUT DIESEL | | | | | | | | | | |
| A8-FIELD PISTON | | | | | | | | | | |
| B1-SEQUENCE III | -1.53 | -0.95 | 0.04 | -0.73 | -1.34 | -0.08 | -0.33 | -0.95 | | |
| B2-SEQUENCE III | 0.28 | -0.66 | -0.24 | -0.87 | 0.89 | 0.46 | 1.04 | -0.22 | | |
| B3-SEQUENCE III | -0.28 | -1.16 | -0.84 | 2.52 | 2.76 | 1.62 | -1.96 | -1.76 | | |
| B4-SEQUENCE III | 2.43 | 1.42 | 0.04 | 1.68 | 2.12 | 2.46 | -1.08 | 0.22 | | |
| B5-SQUARE CUT DIESEL | -0.44 | -0.81 | -1.65 | 0.94 | -0.56 | | | | -1.28 | -1.57 |
| B6-SEQUENCE III | 1.69 | 0.09 | -2.61 | -0.59 | 1.60 | 2.02 | -2.06 | -0.99 | | |
| B7-SQUARE CUT DIESEL | -0.84 | 2.09 | 0.30 | 1.03 | -2.19 | | | | 0.48 | -1.71 |
| B8-FIELD PISTON | | | | | | | | | | |
| C1-SEQUENCE III | | | | | | | | | | |
| C2-SEQUENCE III | | | | | | | | | | |
| C3-SEQUENCE III | | | | | | | | | | |
| C4-SEQUENCE III | | | | | | | | | | |
| C5-SQUARE CUT DIESEL | | | | | | | | | | |
| C6-SEQUENCE III | | | | | | | | | | |
| C7-SQUARE CUT DIESEL | | | | | | | | | | |
| C8-FIELD PISTON | | | | | | | | | | |
| CAL-A-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-B-CAL. SEQ. III PISTON | 2.32 | 2.33 | -1.27 | 0.70 | 3.52 | 1.21 | -1.57 | -3.13 | | |
| CAL-C-CAL. SEQ. III PISTON | 3.21 | 1.60 | -0.96 | 3.61 | -1.20 | 2.53 | -2.28 | -3.36 | | |
| CAL-D-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-M-CAL. DV4 PISTON | 1.80 | 1.37 | -4.73 | -0.36 | 0.46 | | | | | |
| CAL-T-CAL. FIELD PISTON | 0.49 | 0.17 | 0.39 | -2.65 | 4.13 | | 0.98 | 1.93 | | |
| X1-DV4 PISTON | | | | | | | | | | |
| Y1-DV4 PISTON | | | | | | | | | | |
| Z1-DV4 PISTON | | | | | | | | | | |
| MAXIMUM | 3.21 | 2.33 | -4.73 | 3.61 | 4.13 | 2.80 | -2.28 | -3.36 | -1.28 | -1.71 |
| MINIMUM | 0.28 | 0.09 | 0.04 | 0.10 | -0.43 | -0.08 | -0.08 | 0.03 | 0.48 | -1.57 |
| RANGE(MAX-MIN) | 2.930 | 2.240 | -4.770 | 3.510 | 4.560 | 2.880 | -2.200 | -3.390 | -1.760 | -0.140 |
| MEAN | 0.691 | 0.069 | -1.184 | 0.256 | 0.853 | 1.507 | -0.763 | -0.700 | -0.400 | -1.640 |
| STANDARD DEVIATION | 1.678 | 1.433 | 1.394 | 1.591 | 1.875 | 0.973 | 1.112 | 1.524 | 1.245 | 0.099 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Lonsway, Chris

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | I2TOT | I3TOT | UCTOT | THTOT | ATTOT | G4TOT | I4TOT | |
|----------------------------|--------|--------|-------|--------|--------|--------|--------|-------|-------|-------|--|
| A1-SEQUENCE III | | | | | | | | | | | |
| A2-SEQUENCE III | | | | | | | | | | | |
| A3-SEQUENCE III | | | | | | | | | | | |
| A4-SEQUENCE III | 0.51 | 0.37 | 0.77 | -0.71 | -0.01 | -0.22 | -0.12 | -0.29 | | | |
| A5-SQUARE CUT DIESEL | | | | | | | | | | | |
| A6-SEQUENCE III | | | | | | | | | | | |
| A7-SQUARE CUT DIESEL | | | | | | | | | | | |
| A8-FIELD PISTON | | | | | | | | | | | |
| B1-SEQUENCE III | | | | | | | | | | | |
| B2-SEQUENCE III | | | | | | | | | | | |
| B3-SEQUENCE III | | | | | | | | | | | |
| B4-SEQUENCE III | | | | | | | | | | | |
| B5-SQUARE CUT DIESEL | | | | | | | | | | | |
| B6-SEQUENCE III | | | | | | | | | | | |
| B7-SQUARE CUT DIESEL | | | | | | | | | | | |
| B8-FIELD PISTON | | | | | | | | | | | |
| C1-SEQUENCE III | -0.65 | -0.12 | 1.00 | -0.40 | -0.86 | -0.41 | -0.56 | 0.76 | | | |
| C2-SEQUENCE III | -1.28 | 0.43 | 1.56 | 0.87 | -1.22 | -0.86 | -0.76 | 0.26 | | | |
| C3-SEQUENCE III | -1.16 | -0.96 | 0.25 | 0.72 | 0.18 | -1.11 | -0.03 | -0.46 | | | |
| C4-SEQUENCE III | -1.26 | 0.63 | 0.91 | 0.56 | -1.14 | -1.48 | 1.10 | -0.18 | | | |
| C5-SQUARE CUT DIESEL | 0.08 | 0.00 | 0.66 | -0.21 | -0.07 | | | | 0.62 | 0.31 | |
| C6-SEQUENCE III | -0.06 | 0.33 | 0.82 | 0.25 | -0.64 | -1.26 | -0.07 | -0.08 | | | |
| C7-SQUARE CUT DIESEL | -0.33 | -0.59 | 0.30 | -0.47 | -0.48 | | | | 0.58 | 0.28 | |
| C8-FIELD PISTON | | | | | | | | | | | |
| CAL-A-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-B-CAL. SEQ. III PISTON | -0.09 | 0.73 | 1.29 | -0.58 | -1.13 | -0.94 | 0.90 | 0.40 | | | |
| CAL-C-CAL. SEQ. III PISTON | -0.75 | 0.39 | 1.15 | -0.18 | 0.98 | -0.98 | -0.48 | 0.70 | | | |
| CAL-D-CAL. SEQ. III PISTON | -0.14 | -0.80 | -0.19 | -1.51 | 0.06 | -1.25 | -0.15 | -0.02 | | | |
| CAL-M-CAL. DV4 PISTON | -0.39 | 0.09 | 0.39 | -0.79 | 0.87 | | | | | | |
| CAL-T-CAL. FIELD PISTON | | | | | | | | | | | |
| X1-DV4 PISTON | | | | | | | | | | | |
| Y1-DV4 PISTON | | | | | | | | | | | |
| Z1-DV4 PISTON | | | | | | | | | | | |
| MAXIMUM | -1.28 | -0.96 | 1.56 | -1.51 | -1.22 | -1.48 | 1.10 | 0.76 | 0.62 | 0.31 | |
| MINIMUM | -0.06 | 0.00 | -0.19 | -0.18 | -0.01 | -0.22 | -0.03 | -0.02 | 0.58 | 0.28 | |
| RANGE(MAX-MIN) | -1.220 | -0.960 | 1.750 | -1.330 | -1.210 | -1.260 | 1.130 | 0.780 | 0.040 | 0.030 | |
| MEAN | -0.460 | 0.042 | 0.743 | -0.204 | -0.288 | -0.946 | -0.019 | 0.121 | 0.600 | 0.295 | |
| STANDARD DEVIATION | 0.570 | 0.558 | 0.493 | 0.698 | 0.751 | 0.407 | 0.631 | 0.433 | 0.028 | 0.021 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Lopez, Frank

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT | G4TOT | L4TOT | |
|----------------------------|-------|--------|-------|-------|-------|--------|-------|-------|-------|-------|--|
| A1-SEQUENCE III | -0.77 | 0.18 | 0.34 | 1.88 | -0.72 | -0.86 | 0.09 | 0.04 | | | |
| A2-SEQUENCE III | -0.16 | -0.68 | 0.14 | 0.83 | 0.77 | 0.02 | 0.13 | -0.25 | | | |
| A3-SEQUENCE III | 0.21 | -1.13 | 0.30 | -0.46 | 1.30 | 1.20 | -0.95 | -0.03 | | | |
| A4-SEQUENCE III | 0.19 | 0.37 | -0.32 | 0.45 | 1.49 | 0.66 | -0.25 | -0.29 | | | |
| A5-SQUARE CUT DIESEL | -0.36 | 0.46 | 0.22 | 0.70 | 0.63 | | | | 0.28 | -0.13 | |
| A6-SEQUENCE III | 0.10 | 1.24 | 0.99 | 1.18 | 0.25 | -1.45 | 0.28 | 0.14 | | | |
| A7-SQUARE CUT DIESEL | 0.09 | 0.87 | 0.60 | 0.12 | 0.24 | | | | -0.23 | 0.89 | |
| A8-FIELD PISTON | 0.79 | -0.38 | -0.34 | 0.38 | -0.60 | | 1.42 | 1.83 | | | |
| B1-SEQUENCE III | | | | | | | | | | | |
| B2-SEQUENCE III | | | | | | | | | | | |
| B3-SEQUENCE III | | | | | | | | | | | |
| B4-SEQUENCE III | | | | | | | | | | | |
| B5-SQUARE CUT DIESEL | | | | | | | | | | | |
| B6-SEQUENCE III | | | | | | | | | | | |
| B7-SQUARE CUT DIESEL | | | | | | | | | | | |
| B8-FIELD PISTON | | | | | | | | | | | |
| C1-SEQUENCE III | | | | | | | | | | | |
| C2-SEQUENCE III | | | | | | | | | | | |
| C3-SEQUENCE III | | | | | | | | | | | |
| C4-SEQUENCE III | | | | | | | | | | | |
| C5-SQUARE CUT DIESEL | | | | | | | | | | | |
| C6-SEQUENCE III | | | | | | | | | | | |
| C7-SQUARE CUT DIESEL | | | | | | | | | | | |
| C8-FIELD PISTON | | | | | | | | | | | |
| CAL-A-CAL. SEQ. III PISTON | -0.41 | 0.38 | 1.65 | 0.65 | 0.55 | -0.73 | -0.09 | -0.09 | | | |
| CAL-B-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-C-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-D-CAL. SEQ. III PISTON | -0.02 | -1.46 | 0.82 | 0.42 | 0.52 | -0.17 | -0.58 | 0.32 | | | |
| CAL-M-CAL. DV4 PISTON | -0.82 | -0.50 | 0.17 | -0.74 | -0.49 | | | | | | |
| CAL-T-CAL. FIELD PISTON | 1.10 | 1.21 | 0.59 | 0.04 | -0.25 | | 1.00 | 1.27 | | | |
| X1-DV4 PISTON | 0.77 | -0.01 | 0.46 | 1.68 | 0.29 | | | | | | |
| Y1-DV4 PISTON | 0.71 | 0.07 | 0.97 | -0.49 | 0.74 | | | | | | |
| Z1-DV4 PISTON | -0.63 | -0.32 | 0.55 | -1.02 | -1.07 | | | | | | |
| MAXIMUM | 1.10 | -1.46 | 1.65 | 1.88 | 1.49 | -1.45 | 1.42 | 1.83 | 0.28 | 0.89 | |
| MINIMUM | -0.02 | -0.01 | 0.14 | 0.04 | 0.24 | 0.02 | 0.09 | -0.03 | -0.23 | -0.13 | |
| RANGE(MAX-MIN) | 1.120 | -1.450 | 1.510 | 1.840 | 1.250 | -1.470 | 1.330 | 1.860 | 0.510 | 1.020 | |
| MEAN | 0.053 | 0.020 | 0.476 | 0.375 | 0.243 | -0.190 | 0.117 | 0.327 | 0.025 | 0.380 | |
| STANDARD DEVIATION | 0.596 | 0.786 | 0.511 | 0.838 | 0.740 | 0.915 | 0.734 | 0.731 | 0.361 | 0.721 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Lowry, Shannon

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT | G4TOT | L4TOT | |
|----------------------------|-------|-------|--------|-------|-------|-------|-------|-------|-------|-------|--|
| A1-SEQUENCE III | | | | | | | | | | | |
| A2-SEQUENCE III | | | | | | | | | | | |
| A3-SEQUENCE III | | | | | | | | | | | |
| A4-SEQUENCE III | | | | | | | | | | | |
| A5-SQUARE CUT DIESEL | | | | | | | | | | | |
| A6-SEQUENCE III | | | | | | | | | | | |
| A7-SQUARE CUT DIESEL | | | | | | | | | | | |
| A8-FIELD PISTON | | | | | | | | | | | |
| B1-SEQUENCE III | 0.38 | 0.67 | -0.24 | 1.52 | 0.97 | 0.06 | 0.76 | 1.38 | | | |
| B2-SEQUENCE III | 1.17 | 1.22 | -0.84 | 0.56 | 0.78 | -0.54 | -0.01 | 0.95 | | | |
| B3-SEQUENCE III | -0.21 | 2.63 | 0.22 | 0.90 | 0.60 | 1.40 | 0.25 | 0.90 | | | |
| B4-SEQUENCE III | 0.09 | 1.81 | -0.17 | -0.20 | -0.11 | 0.42 | -0.25 | 0.49 | | | |
| B5-SQUARE CUT DIESEL | | | | | | | | | | | |
| B6-SEQUENCE III | -0.03 | 0.90 | 0.24 | 1.61 | -0.41 | 1.47 | 0.48 | 1.04 | | | |
| B7-SQUARE CUT DIESEL | | | | | | | | | | | |
| B8-FIELD PISTON | 0.69 | 1.29 | -1.07 | 0.46 | -0.19 | | 0.08 | -0.67 | | | |
| C1-SEQUENCE III | | | | | | | | | | | |
| C2-SEQUENCE III | | | | | | | | | | | |
| C3-SEQUENCE III | | | | | | | | | | | |
| C4-SEQUENCE III | | | | | | | | | | | |
| C5-SQUARE CUT DIESEL | | | | | | | | | | | |
| C6-SEQUENCE III | | | | | | | | | | | |
| C7-SQUARE CUT DIESEL | | | | | | | | | | | |
| C8-FIELD PISTON | | | | | | | | | | | |
| CAL-A-CAL. SEQ. III PISTON | 1.39 | -1.01 | -0.66 | 1.45 | 0.09 | 1.27 | 0.61 | 0.75 | | | |
| CAL-B-CAL. SEQ. III PISTON | -1.20 | 0.53 | -0.56 | 0.81 | 0.42 | 0.96 | 0.82 | 0.92 | | | |
| CAL-C-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-D-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-M-CAL. DV4 PISTON | | | | | | | | | | | |
| CAL-T-CAL. FIELD PISTON | | | | | | | | | | | |
| X1-DV4 PISTON | | | | | | | | | | | |
| Y1-DV4 PISTON | | | | | | | | | | | |
| Z1-DV4 PISTON | | | | | | | | | | | |
| MAXIMUM | 1.39 | 2.63 | -1.07 | 1.61 | 0.97 | 1.47 | 0.82 | 1.38 | | | |
| MINIMUM | -0.03 | 0.53 | -0.17 | -0.20 | 0.09 | 0.06 | -0.01 | 0.49 | | | |
| RANGE(MAX-MIN) | 1.420 | 2.100 | -0.900 | 1.810 | 0.880 | 1.410 | 0.830 | 0.890 | | | |
| MEAN | 0.285 | 1.005 | -0.385 | 0.889 | 0.269 | 0.720 | 0.343 | 0.720 | | | |
| STANDARD DEVIATION | 0.825 | 1.057 | 0.479 | 0.623 | 0.497 | 0.764 | 0.386 | 0.615 | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Lowsky, John

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT | G4TOT | L4TOT | |
|----------------------------|-------|-------|-------|-------|-------|-------|--------|--------|-------|-------|--|
| A1-SEQUENCE III | | | | | | | | | | | |
| A2-SEQUENCE III | | | | | | | | | | | |
| A3-SEQUENCE III | | | | | | | | | | | |
| A4-SEQUENCE III | | | | | | | | | | | |
| A5-SQUARE CUT DIESEL | | | | | | | | | | | |
| A6-SEQUENCE III | | | | | | | | | | | |
| A7-SQUARE CUT DIESEL | | | | | | | | | | | |
| A8-FIELD PISTON | | | | | | | | | | | |
| B1-SEQUENCE III | | | | | | | | | | | |
| B2-SEQUENCE III | | | | | | | | | | | |
| B3-SEQUENCE III | | | | | | | | | | | |
| B4-SEQUENCE III | | | | | | | | | | | |
| B5-SQUARE CUT DIESEL | | | | | | | | | | | |
| B6-SEQUENCE III | | | | | | | | | | | |
| B7-SQUARE CUT DIESEL | | | | | | | | | | | |
| B8-FIELD PISTON | | | | | | | | | | | |
| C1-SEQUENCE III | 1.82 | 0.70 | 0.00 | 2.34 | 1.94 | 1.48 | -1.44 | -1.33 | | | |
| C2-SEQUENCE III | 0.75 | 0.43 | 0.23 | 1.73 | 1.68 | 2.37 | 0.28 | -1.70 | | | |
| C3-SEQUENCE III | 1.72 | 2.23 | 0.06 | 1.96 | 2.23 | 1.81 | 1.77 | 1.44 | | | |
| C4-SEQUENCE III | 1.57 | 2.31 | 0.32 | 1.71 | 1.34 | 1.86 | -0.39 | -1.20 | | | |
| C5-SQUARE CUT DIESEL | 2.22 | 2.13 | 0.25 | 1.98 | 0.74 | | | | 1.15 | 0.74 | |
| C6-SEQUENCE III | 1.57 | -0.89 | -0.55 | 1.15 | 2.18 | 2.08 | 0.90 | -0.08 | | | |
| C7-SQUARE CUT DIESEL | 1.39 | 1.26 | -0.60 | 1.57 | -0.24 | | | | -1.11 | -0.50 | |
| C8-FIELD PISTON | -0.39 | 0.80 | 0.72 | 0.94 | -0.53 | | 0.88 | -0.90 | | | |
| CAL-A-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-B-CAL. SEQ. III PISTON | 1.76 | -1.88 | 0.04 | -0.79 | 0.16 | 0.21 | -0.84 | 0.92 | | | |
| CAL-C-CAL. SEQ. III PISTON | 0.91 | 0.75 | -0.33 | -0.21 | 0.18 | 0.59 | -1.77 | -0.60 | | | |
| CAL-D-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-M-CAL. DV4 PISTON | 1.30 | -0.60 | -0.10 | -0.03 | -0.47 | | | | | | |
| CAL-T-CAL. FIELD PISTON | -1.40 | 1.34 | -0.56 | 1.12 | -0.30 | | 0.29 | -0.15 | | | |
| X1-DV4 PISTON | -0.28 | 0.26 | 0.28 | -0.69 | 0.29 | | | | | | |
| Y1-DV4 PISTON | -1.06 | 1.54 | 0.48 | 2.42 | -0.03 | | | | | | |
| Z1-DV4 PISTON | 1.71 | 0.69 | 1.65 | -0.86 | 2.45 | | | | | | |
| MAXIMUM | 2.22 | 2.31 | 1.65 | 2.42 | 2.45 | 2.37 | 1.77 | -1.70 | 1.15 | 0.74 | |
| MINIMUM | -0.28 | 0.26 | 0.00 | -0.03 | -0.03 | 0.21 | 0.28 | -0.08 | -1.11 | -0.50 | |
| RANGE(MAX-MIN) | 2.500 | 2.050 | 1.650 | 2.450 | 2.480 | 2.160 | 1.490 | -1.620 | 2.260 | 1.240 | |
| MEAN | 0.906 | 0.738 | 0.126 | 0.956 | 0.775 | 1.486 | -0.036 | -0.400 | 0.020 | 0.120 | |
| STANDARD DEVIATION | 1.139 | 1.181 | 0.575 | 1.168 | 1.084 | 0.797 | 1.169 | 1.047 | 1.598 | 0.877 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= May, Marianne

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT | G4TOT | L4TOT |
|----------------------------|--------|--------|-------|--------|-------|-------|-------|-------|-------|-------|
| A1-SEQUENCE III | -1.31 | 0.18 | 0.81 | 0.60 | -0.72 | -0.71 | 0.40 | 1.37 | | |
| A2-SEQUENCE III | -2.20 | 0.11 | 1.15 | -0.99 | 0.62 | 1.52 | 0.42 | 1.04 | | |
| A3-SEQUENCE III | -1.61 | -0.29 | 0.58 | -0.02 | 0.62 | 0.14 | 1.08 | 1.08 | | |
| A4-SEQUENCE III | 0.51 | 0.37 | 0.33 | -0.83 | 0.61 | 0.75 | 0.28 | 1.27 | | |
| A5-SQUARE CUT DIESEL | -0.64 | 0.27 | 0.01 | 0.06 | 1.70 | | | | 0.47 | 1.95 |
| A6-SEQUENCE III | -1.36 | -0.59 | 0.52 | -0.57 | -0.84 | -1.19 | 0.51 | 1.74 | | |
| A7-SQUARE CUT DIESEL | -0.69 | 0.32 | 1.53 | 1.20 | 0.77 | | | | 1.37 | 1.31 |
| A8-FIELD PISTON | | | | | | | | | | |
| B1-SEQUENCE III | -1.85 | 0.67 | 0.78 | -0.14 | 0.08 | 0.55 | 1.06 | 1.38 | | |
| B2-SEQUENCE III | -2.25 | -0.66 | 1.22 | -0.39 | 0.89 | 0.40 | 0.55 | 1.34 | | |
| B3-SEQUENCE III | -2.51 | 0.11 | 0.62 | -0.39 | 0.21 | -1.12 | 0.13 | 1.40 | | |
| B4-SEQUENCE III | | | | | | | | | | |
| B5-SQUARE CUT DIESEL | | | | | | | | | | |
| B6-SEQUENCE III | | | | | | | | | | |
| B7-SQUARE CUT DIESEL | | | | | | | | | | |
| B8-FIELD PISTON | | | | | | | | | | |
| C1-SEQUENCE III | | | | | | | | | | |
| C2-SEQUENCE III | | | | | | | | | | |
| C3-SEQUENCE III | | | | | | | | | | |
| C4-SEQUENCE III | | | | | | | | | | |
| C5-SQUARE CUT DIESEL | | | | | | | | | | |
| C6-SEQUENCE III | | | | | | | | | | |
| C7-SQUARE CUT DIESEL | | | | | | | | | | |
| C8-FIELD PISTON | | | | | | | | | | |
| CAL-A-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-B-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-C-CAL. SEQ. III PISTON | -0.84 | -1.00 | 0.44 | -0.35 | 0.74 | 0.21 | 0.26 | 0.79 | | |
| CAL-D-CAL. SEQ. III PISTON | -0.25 | -0.22 | 0.76 | -1.15 | 0.72 | 0.60 | 0.14 | -0.28 | | |
| CAL-M-CAL. DV4 PISTON | -0.46 | -0.18 | 0.49 | -0.84 | 0.76 | | | | | |
| CAL-T-CAL. FIELD PISTON | | | | | | | | | | |
| X1-DV4 PISTON | | | | | | | | | | |
| Y1-DV4 PISTON | | | | | | | | | | |
| Z1-DV4 PISTON | | | | | | | | | | |
| MAXIMUM | -2.51 | -1.00 | 1.53 | 1.20 | 1.70 | 1.52 | 1.08 | 1.74 | 1.37 | 1.95 |
| MINIMUM | -0.25 | 0.11 | 0.01 | -0.02 | 0.08 | 0.14 | 0.13 | -0.28 | 0.47 | 1.31 |
| RANGE(MAX-MIN) | -2.260 | -1.110 | 1.520 | 1.220 | 1.620 | 1.380 | 0.950 | 2.020 | 0.900 | 0.640 |
| MEAN | -1.189 | -0.070 | 0.711 | -0.293 | 0.474 | 0.115 | 0.483 | 1.113 | 0.920 | 1.630 |
| STANDARD DEVIATION | 0.891 | 0.475 | 0.404 | 0.655 | 0.672 | 0.869 | 0.340 | 0.552 | 0.636 | 0.453 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Millward, Glen

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT | G4TOT | L4TOT | |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| A1-SEQUENCE III | | | | | | | | | | | |
| A2-SEQUENCE III | | | | | | | | | | | |
| A3-SEQUENCE III | | | | | | | | | | | |
| A4-SEQUENCE III | | | | | | | | | | | |
| A5-SQUARE CUT DIESEL | | | | | | | | | | | |
| A6-SEQUENCE III | | | | | | | | | | | |
| A7-SQUARE CUT DIESEL | | | | | | | | | | | |
| A8-FIELD PISTON | | | | | | | | | | | |
| B1-SEQUENCE III | | | | | | | | | | | |
| B2-SEQUENCE III | | | | | | | | | | | |
| B3-SEQUENCE III | | | | | | | | | | | |
| B4-SEQUENCE III | | | | | | | | | | | |
| B5-SQUARE CUT DIESEL | | | | | | | | | | | |
| B6-SEQUENCE III | | | | | | | | | | | |
| B7-SQUARE CUT DIESEL | | | | | | | | | | | |
| B8-FIELD PISTON | | | | | | | | | | | |
| C1-SEQUENCE III | | | | | | | | | | | |
| C2-SEQUENCE III | | | | | | | | | | | |
| C3-SEQUENCE III | | | | | | | | | | | |
| C4-SEQUENCE III | | | | | | | | | | | |
| C5-SQUARE CUT DIESEL | | | | | | | | | | | |
| C6-SEQUENCE III | | | | | | | | | | | |
| C7-SQUARE CUT DIESEL | | | | | | | | | | | |
| C8-FIELD PISTON | | | | | | | | | | | |
| CAL-A-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-B-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-C-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-D-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-M-CAL. DV4 PISTON | | | | | | | | | | | |
| CAL-T-CAL. FIELD PISTON | | | | | | | | | | | |
| X1-DV4 PISTON | | | | | | | | | | | |
| Y1-DV4 PISTON | | | | | | | | | | | |
| Z1-DV4 PISTON | | | | | | | | | | | |
| MAXIMUM | | | | | | | | | | | |
| MINIMUM | | | | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | | | | |
| MEAN | | | | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Potocar, William P

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | I2TOT | L3TOT | UCTOT | THTOT | ATTOT | G4TOT | L4TOT | |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|--|
| A1-SEQUENCE III | | | | | | | | | | | |
| A2-SEQUENCE III | | | | | | | | | | | |
| A3-SEQUENCE III | | | | | | | | | | | |
| A4-SEQUENCE III | | | | | | | | | | | |
| A5-SQUARE CUT DIESEL | | | | | | | | | | | |
| A6-SEQUENCE III | | | | | | | | | | | |
| A7-SQUARE CUT DIESEL | | | | | | | | | | | |
| A8-FIELD PISTON | | | | | | | | | | | |
| B1-SEQUENCE III | | | | | | | | | | | |
| B2-SEQUENCE III | | | | | | | | | | | |
| B3-SEQUENCE III | | | | | | | | | | | |
| B4-SEQUENCE III | | | | | | | | | | | |
| B5-SQUARE CUT DIESEL | | | | | | | | | | | |
| B6-SEQUENCE III | | | | | | | | | | | |
| B7-SQUARE CUT DIESEL | | | | | | | | | | | |
| B8-FIELD PISTON | | | | | | | | | | | |
| C1-SEQUENCE III | -0.60 | -2.55 | -0.91 | 0.84 | -0.59 | -0.51 | -0.41 | 0.76 | | | |
| C2-SEQUENCE III | -1.26 | 0.43 | -0.54 | -0.47 | -0.84 | -0.15 | -2.23 | -0.72 | | | |
| C3-SEQUENCE III | -1.06 | -0.78 | -0.19 | -0.76 | -1.00 | -0.23 | -0.93 | 0.49 | | | |
| C4-SEQUENCE III | -1.40 | -0.12 | -1.23 | -1.45 | -0.10 | -1.03 | -0.04 | 0.83 | | | |
| C5-SQUARE CUT DIESEL | -0.15 | 0.15 | -0.26 | -0.72 | 0.32 | | | | 0.62 | 0.37 | |
| C6-SEQUENCE III | -1.73 | -0.28 | -0.40 | -0.24 | -0.88 | 0.64 | -0.02 | -1.01 | | | |
| C7-SQUARE CUT DIESEL | -0.19 | -0.83 | 1.19 | 0.36 | 0.95 | | | | 1.09 | 0.95 | |
| C8-FIELD PISTON | -0.11 | 0.80 | -0.82 | -1.37 | -0.75 | | -1.44 | -0.90 | | | |
| CAL-A-CAL. SEQ. III PISTON | -0.65 | 0.66 | 0.09 | 0.98 | -1.09 | -0.87 | 0.50 | -0.09 | | | |
| CAL-B-CAL. SEQ. III PISTON | -0.35 | -1.48 | -0.10 | -1.11 | -0.99 | 0.43 | -1.35 | -0.12 | | | |
| CAL-C-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-D-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-M-CAL. DV4 PISTON | -1.10 | 0.23 | 0.19 | -0.98 | 0.01 | | | | | | |
| CAL-T-CAL. FIELD PISTON | 0.01 | -0.22 | -0.94 | -0.10 | -0.55 | | -1.10 | -0.58 | | | |
| X1-DV4 PISTON | -0.81 | -0.78 | 1.02 | 0.45 | 0.80 | | | | | | |
| Y1-DV4 PISTON | | | | | | | | | | | |
| Z1-DV4 PISTON | -0.96 | -0.87 | 0.29 | 0.09 | -0.09 | | | | | | |
| MAXIMUM | -1.73 | -2.55 | -1.23 | -1.45 | -1.09 | -1.03 | -2.23 | -1.01 | 1.09 | 0.95 | |
| MINIMUM | 0.01 | -0.12 | 0.09 | 0.09 | 0.01 | -0.15 | -0.02 | -0.09 | 0.62 | 0.37 | |
| RANGE(MAX-MIN) | -1.740 | -2.430 | -1.320 | -1.540 | -1.100 | -0.880 | -2.210 | -0.920 | 0.470 | 0.580 | |
| MEAN | -0.740 | -0.403 | -0.186 | -0.320 | -0.343 | -0.246 | -0.780 | -0.149 | 0.855 | 0.660 | |
| STANDARD DEVIATION | 0.538 | 0.901 | 0.710 | 0.791 | 0.672 | 0.623 | 0.858 | 0.708 | 0.332 | 0.410 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Rodriguez, Jesus (Jesse)

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT | G4TOT | L4TOT |
|----------------------------|--------|--------|-------|-------|--------|-------|--------|--------|--------|-------|
| A1-SEQUENCE III | -0.15 | 0.35 | 0.20 | 0.69 | -0.04 | -0.43 | 0.56 | 0.26 | | |
| A2-SEQUENCE III | -0.34 | 0.38 | 0.56 | 1.16 | -1.35 | 1.12 | 0.30 | -0.25 | | |
| A3-SEQUENCE III | -0.71 | -0.46 | 0.63 | 0.07 | -0.25 | 1.49 | 0.50 | -0.03 | | |
| A4-SEQUENCE III | 0.51 | 0.37 | -0.40 | 0.80 | -0.56 | -0.36 | 0.15 | -0.29 | | |
| A5-SQUARE CUT DIESEL | -0.03 | -1.22 | 0.22 | 0.19 | 0.84 | | | | -0.66 | 0.08 |
| A6-SEQUENCE III | 0.05 | -0.03 | 0.37 | -0.20 | 1.14 | -0.47 | -0.15 | 0.14 | | |
| A7-SQUARE CUT DIESEL | -0.25 | 0.87 | 0.60 | 0.00 | 0.24 | | | | 0.57 | 0.20 |
| A8-FIELD PISTON | 0.79 | 0.60 | -1.43 | -0.72 | -1.44 | | -0.60 | -0.60 | | |
| B1-SEQUENCE III | | | | | | | | | | |
| B2-SEQUENCE III | | | | | | | | | | |
| B3-SEQUENCE III | | | | | | | | | | |
| B4-SEQUENCE III | | | | | | | | | | |
| B5-SQUARE CUT DIESEL | | | | | | | | | | |
| B6-SEQUENCE III | | | | | | | | | | |
| B7-SQUARE CUT DIESEL | | | | | | | | | | |
| B8-FIELD PISTON | | | | | | | | | | |
| C1-SEQUENCE III | | | | | | | | | | |
| C2-SEQUENCE III | | | | | | | | | | |
| C3-SEQUENCE III | | | | | | | | | | |
| C4-SEQUENCE III | | | | | | | | | | |
| C5-SQUARE CUT DIESEL | | | | | | | | | | |
| C6-SEQUENCE III | | | | | | | | | | |
| C7-SQUARE CUT DIESEL | | | | | | | | | | |
| C8-FIELD PISTON | | | | | | | | | | |
| CAL-A-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-B-CAL. SEQ. III PISTON | -0.82 | -0.47 | -0.07 | -0.37 | -1.13 | -0.36 | -0.93 | -1.16 | | |
| CAL-C-CAL. SEQ. III PISTON | -0.91 | -0.02 | -0.66 | -0.49 | 0.39 | -0.95 | 0.31 | 0.10 | | |
| CAL-D-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-M-CAL. DV4 PISTON | -0.82 | -0.46 | 0.08 | 1.64 | -1.07 | | | | | |
| CAL-T-CAL. FIELD PISTON | 0.22 | -1.13 | 2.17 | -1.13 | 0.03 | | -0.47 | -0.20 | | |
| X1-DV4 PISTON | -0.02 | -0.82 | 0.11 | 0.84 | -0.05 | | | | | |
| Y1-DV4 PISTON | -1.41 | 1.06 | 0.47 | 0.85 | -0.08 | | | | | |
| Z1-DV4 PISTON | | | | | | | | | | |
| MAXIMUM | -1.41 | -1.22 | 2.17 | 1.64 | -1.44 | 1.49 | -0.93 | -1.16 | -0.66 | 0.20 |
| MINIMUM | -0.02 | -0.02 | -0.07 | 0.00 | 0.03 | -0.36 | 0.15 | -0.03 | 0.57 | 0.08 |
| RANGE(MAX-MIN) | -1.390 | -1.200 | 2.240 | 1.640 | -1.470 | 1.850 | -1.080 | -1.130 | -1.230 | 0.120 |
| MEAN | -0.278 | -0.070 | 0.204 | 0.238 | -0.238 | 0.006 | -0.037 | -0.226 | -0.045 | 0.140 |
| STANDARD DEVIATION | 0.603 | 0.716 | 0.799 | 0.786 | 0.791 | 0.917 | 0.528 | 0.438 | 0.870 | 0.085 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Sanchez, Arthur

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT | G4TOT | L4TOT | |
|----------------------------|--------|--------|--------|--------|--------|--------|-------|--------|-------|-------|--|
| A1-SEQUENCE III | | | | | | | | | | | |
| A2-SEQUENCE III | | | | | | | | | | | |
| A3-SEQUENCE III | | | | | | | | | | | |
| A4-SEQUENCE III | | | | | | | | | | | |
| A5-SQUARE CUT DIESEL | | | | | | | | | | | |
| A6-SEQUENCE III | | | | | | | | | | | |
| A7-SQUARE CUT DIESEL | | | | | | | | | | | |
| A8-FIELD PISTON | | | | | | | | | | | |
| B1-SEQUENCE III | 1.75 | 0.67 | -0.24 | -1.20 | 0.31 | 0.64 | 0.27 | -0.52 | | | |
| B2-SEQUENCE III | 1.38 | 0.54 | 1.32 | -0.65 | -1.47 | 0.09 | 0.48 | -0.22 | | | |
| B3-SEQUENCE III | 0.99 | 0.11 | 1.42 | -0.99 | -0.39 | -0.59 | 0.13 | -0.10 | | | |
| B4-SEQUENCE III | 1.27 | 1.03 | 0.69 | -1.25 | 0.25 | -0.53 | 0.38 | -2.08 | | | |
| B5-SQUARE CUT DIESEL | -0.07 | 0.48 | 0.36 | 1.44 | 0.61 | | | | 0.96 | 0.90 | |
| B6-SEQUENCE III | 0.71 | 0.50 | 0.94 | 1.14 | -1.45 | -0.78 | 0.61 | -0.84 | | | |
| B7-SQUARE CUT DIESEL | 0.83 | -0.61 | -1.80 | -0.10 | 0.76 | | | | -0.19 | 0.99 | |
| B8-FIELD PISTON | -1.89 | 0.67 | -0.39 | -0.64 | -0.33 | | 0.79 | 0.66 | | | |
| C1-SEQUENCE III | | | | | | | | | | | |
| C2-SEQUENCE III | | | | | | | | | | | |
| C3-SEQUENCE III | | | | | | | | | | | |
| C4-SEQUENCE III | | | | | | | | | | | |
| C5-SQUARE CUT DIESEL | | | | | | | | | | | |
| C6-SEQUENCE III | | | | | | | | | | | |
| C7-SQUARE CUT DIESEL | | | | | | | | | | | |
| C8-FIELD PISTON | | | | | | | | | | | |
| CAL-A-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-B-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-C-CAL. SEQ. III PISTON | -0.54 | -0.40 | 0.88 | -0.25 | 0.92 | -1.08 | 0.93 | -0.08 | | | |
| CAL-D-CAL. SEQ. III PISTON | -0.36 | 0.60 | 1.54 | -0.94 | -1.63 | 0.41 | 0.72 | -0.11 | | | |
| CAL-M-CAL. DV4 PISTON | 0.81 | -0.27 | 0.47 | -0.93 | 1.22 | | | | | | |
| CAL-T-CAL. FIELD PISTON | -1.54 | -1.13 | -0.22 | -1.88 | 1.43 | | 2.27 | 1.23 | | | |
| X1-DV4 PISTON | | | | | | | | | | | |
| Y1-DV4 PISTON | -0.35 | 0.43 | 0.34 | -1.58 | 0.45 | | | | | | |
| Z1-DV4 PISTON | 0.67 | -0.50 | 0.85 | 0.01 | 0.48 | | | | | | |
| MAXIMUM | -1.89 | -1.13 | -1.80 | -1.88 | -1.63 | -1.08 | 2.27 | -2.08 | 0.96 | 0.99 | |
| MINIMUM | -0.07 | 0.11 | -0.22 | 0.01 | 0.25 | 0.09 | 0.13 | -0.08 | -0.19 | 0.90 | |
| RANGE(MAX-MIN) | -1.820 | -1.240 | -1.580 | -1.890 | -1.880 | -1.170 | 2.140 | -2.000 | 1.150 | 0.090 | |
| MEAN | 0.261 | 0.151 | 0.440 | -0.559 | 0.083 | -0.263 | 0.731 | -0.229 | 0.385 | 0.945 | |
| STANDARD DEVIATION | 1.088 | 0.626 | 0.888 | 0.948 | 1.000 | 0.646 | 0.631 | 0.926 | 0.813 | 0.064 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Seiz, Ray

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT | G4TOT | L4TOT | |
|----------------------------|--------|--------|-------|-------|-------|--------|--------|--------|-------|-------|--|
| A1-SEQUENCE III | | | | | | | | | | | |
| A2-SEQUENCE III | | | | | | | | | | | |
| A3-SEQUENCE III | | | | | | | | | | | |
| A4-SEQUENCE III | | | | | | | | | | | |
| A5-SQUARE CUT DIESEL | | | | | | | | | | | |
| A6-SEQUENCE III | | | | | | | | | | | |
| A7-SQUARE CUT DIESEL | | | | | | | | | | | |
| A8-FIELD PISTON | | | | | | | | | | | |
| B1-SEQUENCE III | -0.88 | 0.67 | 0.15 | -0.14 | 0.68 | 0.32 | -0.52 | -0.31 | | | |
| B2-SEQUENCE III | -0.86 | -0.83 | -0.30 | 2.74 | 0.76 | 0.67 | -1.70 | -1.20 | | | |
| B3-SEQUENCE III | 1.17 | 0.11 | 0.32 | 0.74 | 0.21 | -0.17 | 0.38 | -0.76 | | | |
| B4-SEQUENCE III | 0.00 | -0.01 | -0.04 | 1.55 | 1.14 | -0.33 | 0.90 | 0.08 | | | |
| B5-SQUARE CUT DIESEL | -0.53 | 1.07 | 0.75 | -1.30 | 0.03 | | | | 0.45 | 0.04 | |
| B6-SEQUENCE III | -1.03 | -2.55 | 0.24 | -0.12 | 1.81 | -0.39 | 1.00 | -0.12 | | | |
| B7-SQUARE CUT DIESEL | -1.64 | -0.47 | 0.30 | 1.33 | 0.12 | | | | -0.33 | 0.15 | |
| B8-FIELD PISTON | 0.95 | -1.18 | 0.58 | -0.28 | 1.43 | | 0.84 | -0.06 | | | |
| C1-SEQUENCE III | | | | | | | | | | | |
| C2-SEQUENCE III | | | | | | | | | | | |
| C3-SEQUENCE III | | | | | | | | | | | |
| C4-SEQUENCE III | | | | | | | | | | | |
| C5-SQUARE CUT DIESEL | | | | | | | | | | | |
| C6-SEQUENCE III | | | | | | | | | | | |
| C7-SQUARE CUT DIESEL | | | | | | | | | | | |
| C8-FIELD PISTON | | | | | | | | | | | |
| CAL-A-CAL. SEQ. III PISTON | 0.74 | -0.59 | 0.19 | 0.73 | 0.68 | 0.74 | 0.21 | -0.93 | | | |
| CAL-B-CAL. SEQ. III PISTON | -0.26 | -0.27 | 0.53 | 2.41 | 0.64 | -1.09 | 0.69 | -0.64 | | | |
| CAL-C-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-D-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-M-CAL. DV4 PISTON | 0.10 | 0.05 | 0.44 | -0.60 | 0.76 | | | | | | |
| CAL-T-CAL. FIELD PISTON | 1.84 | -0.09 | 0.19 | 0.71 | -0.29 | | -0.02 | -1.07 | | | |
| X1-DV4 PISTON | | | | | | | | | | | |
| Y1-DV4 PISTON | 0.35 | 1.10 | 0.89 | 1.72 | 0.74 | | | | | | |
| Z1-DV4 PISTON | -0.21 | -0.69 | 0.17 | -0.70 | 0.57 | | | | | | |
| MAXIMUM | 1.84 | -2.55 | 0.89 | 2.74 | 1.81 | -1.09 | -1.70 | -1.20 | 0.45 | 0.15 | |
| MINIMUM | 0.00 | -0.01 | -0.04 | -0.12 | 0.03 | -0.17 | -0.02 | -0.06 | -0.33 | 0.04 | |
| RANGE(MAX-MIN) | 1.840 | -2.540 | 0.930 | 2.860 | 1.780 | -0.920 | -1.680 | -1.140 | 0.780 | 0.110 | |
| MEAN | -0.019 | -0.263 | 0.315 | 0.628 | 0.663 | -0.036 | 0.198 | -0.557 | 0.060 | 0.095 | |
| STANDARD DEVIATION | 0.960 | 0.943 | 0.309 | 1.214 | 0.553 | 0.654 | 0.865 | 0.470 | 0.552 | 0.078 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Swanson, Dennis

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | I2TOT | I3TOT | UCTOT | THTOT | ATTOT | G4TOT | I4TOT |
|----------------------------|-------|--------|--------|--------|--------|-------|--------|--------|--------|--------|
| A1-SEQUENCE III | 0.64 | -2.74 | -1.96 | -1.06 | 0.19 | -0.35 | -1.69 | -1.97 | | |
| A2-SEQUENCE III | 0.32 | 0.90 | -2.61 | -0.93 | 0.03 | 0.02 | -1.81 | 1.04 | | |
| A3-SEQUENCE III | -0.79 | 0.88 | -0.30 | -2.38 | 0.50 | 0.30 | 1.37 | 1.24 | | |
| A4-SEQUENCE III | | | | | | | | | | |
| A5-SQUARE CUT DIESEL | 1.26 | -0.30 | -0.61 | -0.94 | -0.10 | | | | 0.57 | -0.13 |
| A6-SEQUENCE III | 0.30 | 1.38 | -2.09 | 1.51 | 1.04 | 1.04 | -1.11 | 1.56 | | |
| A7-SQUARE CUT DIESEL | | | | | | | | | | |
| A8-FIELD PISTON | | | | | | | | | | |
| B1-SEQUENCE III | | | | | | | | | | |
| B2-SEQUENCE III | | | | | | | | | | |
| B3-SEQUENCE III | | | | | | | | | | |
| B4-SEQUENCE III | | | | | | | | | | |
| B5-SQUARE CUT DIESEL | | | | | | | | | | |
| B6-SEQUENCE III | | | | | | | | | | |
| B7-SQUARE CUT DIESEL | | | | | | | | | | |
| B8-FIELD PISTON | | | | | | | | | | |
| C1-SEQUENCE III | 0.96 | -0.12 | -1.58 | 1.68 | 0.51 | 0.48 | 1.79 | 0.97 | | |
| C2-SEQUENCE III | 1.00 | -0.43 | -1.26 | -0.16 | 0.80 | 0.60 | 0.49 | 0.46 | | |
| C3-SEQUENCE III | 0.71 | 0.71 | -2.91 | 0.16 | 0.46 | 0.33 | -0.21 | 0.68 | | |
| C4-SEQUENCE III | 0.66 | 0.18 | -1.96 | 0.30 | 0.41 | -0.03 | -1.62 | 0.63 | | |
| C5-SQUARE CUT DIESEL | -0.74 | -1.75 | -1.99 | 0.11 | -2.01 | | | | -0.98 | -2.29 |
| C6-SEQUENCE III | -0.54 | -2.11 | -2.59 | -1.46 | 0.09 | 0.41 | -2.24 | 0.29 | | |
| C7-SQUARE CUT DIESEL | 0.52 | -1.29 | -1.49 | -2.07 | -1.87 | | | | -0.26 | -1.74 |
| C8-FIELD PISTON | -1.93 | 1.22 | 1.07 | 0.61 | 0.41 | | -0.89 | -0.65 | | |
| CAL-A-CAL. SEQ. III PISTON | -0.38 | 2.23 | -0.86 | -2.52 | -0.73 | -0.52 | -1.60 | -1.43 | | |
| CAL-B-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-C-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-D-CAL. SEQ. III PISTON | 3.20 | 2.16 | -1.42 | -0.01 | 0.39 | 0.36 | -2.52 | -2.44 | | |
| CAL-M-CAL. DV4 PISTON | 0.67 | -0.69 | 0.22 | 1.40 | -0.64 | | | | | |
| CAL-T-CAL. FIELD PISTON | 1.64 | 2.50 | 0.26 | 0.81 | -0.14 | | -0.57 | -0.77 | | |
| X1-DV4 PISTON | -1.33 | -0.92 | -2.60 | -1.27 | 0.26 | | | | | |
| Y1-DV4 PISTON | | | | | | | | | | |
| Z1-DV4 PISTON | 0.67 | -1.05 | -0.69 | -0.46 | -0.66 | | | | | |
| MAXIMUM | 3.20 | -2.74 | -2.91 | -2.52 | -2.01 | 1.04 | -2.52 | -2.44 | -0.98 | -2.29 |
| MINIMUM | 0.30 | -0.12 | 0.22 | -0.01 | 0.03 | 0.02 | -0.21 | 0.29 | -0.26 | -0.13 |
| RANGE(MAX-MIN) | 2.900 | -2.620 | -3.130 | -2.510 | -2.040 | 1.020 | -2.310 | -2.730 | -0.720 | -2.160 |
| MEAN | 0.360 | 0.040 | -1.335 | -0.352 | -0.056 | 0.240 | -0.816 | -0.030 | -0.223 | -1.387 |
| STANDARD DEVIATION | 1.150 | 1.505 | 1.109 | 1.270 | 0.814 | 0.439 | 1.346 | 1.292 | 0.776 | 1.123 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Terrado, Ken

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT | G4TOT | L4TOT | |
|----------------------------|--------|--------|--------|--------|-------|-------|-------|--------|-------|-------|--|
| A1-SEQUENCE III | | | | | | | | | | | |
| A2-SEQUENCE III | | | | | | | | | | | |
| A3-SEQUENCE III | | | | | | | | | | | |
| A4-SEQUENCE III | | | | | | | | | | | |
| A5-SQUARE CUT DIESEL | | | | | | | | | | | |
| A6-SEQUENCE III | | | | | | | | | | | |
| A7-SQUARE CUT DIESEL | | | | | | | | | | | |
| A8-FIELD PISTON | | | | | | | | | | | |
| B1-SEQUENCE III | 1.14 | -0.95 | 0.00 | -1.55 | 0.74 | 0.58 | 0.37 | -0.31 | | | |
| B2-SEQUENCE III | | | | | | | | | | | |
| B3-SEQUENCE III | | | | | | | | | | | |
| B4-SEQUENCE III | | | | | | | | | | | |
| B5-SQUARE CUT DIESEL | | | | | | | | | | | |
| B6-SEQUENCE III | | | | | | | | | | | |
| B7-SQUARE CUT DIESEL | | | | | | | | | | | |
| B8-FIELD PISTON | | | | | | | | | | | |
| C1-SEQUENCE III | 1.82 | 0.70 | -0.89 | -0.66 | 2.22 | 0.66 | 0.03 | -0.28 | | | |
| C2-SEQUENCE III | -0.43 | 0.43 | -0.96 | -1.16 | 1.74 | 0.87 | 1.20 | 0.26 | | | |
| C3-SEQUENCE III | 1.22 | 0.87 | 0.87 | -1.29 | 0.09 | -0.14 | -0.03 | -0.46 | | | |
| C4-SEQUENCE III | 0.33 | -0.25 | -0.71 | 0.53 | 1.17 | 1.37 | 0.31 | -0.18 | | | |
| C5-SQUARE CUT DIESEL | 0.14 | 0.19 | -0.72 | -0.26 | 0.68 | | | | 0.08 | 0.42 | |
| C6-SEQUENCE III | 0.52 | 0.95 | 0.59 | 0.25 | 0.45 | -0.36 | -0.55 | -0.08 | | | |
| C7-SQUARE CUT DIESEL | | | | | | | | | | | |
| C8-FIELD PISTON | | | | | | | | | | | |
| CAL-A-CAL. SEQ. III PISTON | -2.05 | -2.12 | -1.57 | -0.62 | -0.27 | -0.55 | 0.38 | -0.09 | | | |
| CAL-B-CAL. SEQ. III PISTON | -0.82 | 0.33 | 1.27 | 0.17 | -0.15 | -0.19 | 0.61 | 0.92 | | | |
| CAL-C-CAL. SEQ. III PISTON | 0.01 | -2.02 | -0.03 | -0.32 | 0.02 | -0.39 | -0.87 | 0.10 | | | |
| CAL-D-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-M-CAL. DV4 PISTON | | | | | | | | | | | |
| CAL-T-CAL. FIELD PISTON | | | | | | | | | | | |
| X1-DV4 PISTON | | | | | | | | | | | |
| Y1-DV4 PISTON | | | | | | | | | | | |
| Z1-DV4 PISTON | | | | | | | | | | | |
| MAXIMUM | -2.05 | -2.12 | -1.57 | -1.55 | 2.22 | 1.37 | 1.20 | 0.92 | 0.08 | 0.42 | |
| MINIMUM | 0.01 | 0.19 | 0.00 | 0.17 | 0.02 | -0.14 | 0.03 | -0.08 | 0.08 | 0.42 | |
| RANGE(MAX-MIN) | -2.060 | -2.310 | -1.570 | -1.720 | 2.200 | 1.510 | 1.170 | 1.000 | 0.000 | 0.000 | |
| MEAN | 0.188 | -0.187 | -0.215 | -0.491 | 0.669 | 0.206 | 0.161 | -0.013 | 0.080 | 0.420 | |
| STANDARD DEVIATION | 1.116 | 1.139 | 0.910 | 0.696 | 0.828 | 0.677 | 0.614 | 0.412 | 0.000 | 0.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Trevino, Bobby

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT | G4TOT | L4TOT |
|----------------------------|-------|-------|-------|--------|-------|--------|-------|--------|-------|-------|
| A1-SEQUENCE III | -0.15 | 0.35 | 0.28 | 0.37 | -0.04 | -0.13 | 0.25 | -0.19 | | |
| A2-SEQUENCE III | 0.06 | 1.43 | 0.63 | -0.18 | 0.36 | -0.36 | 1.39 | -0.41 | | |
| A3-SEQUENCE III | 0.49 | 1.21 | 0.09 | 0.15 | 0.73 | -1.68 | -0.23 | 0.61 | | |
| A4-SEQUENCE III | 0.51 | 0.37 | 0.04 | -0.59 | 0.18 | -0.43 | -0.65 | 0.18 | | |
| A5-SQUARE CUT DIESEL | | | | | | | | | | |
| A6-SEQUENCE III | 0.29 | -0.17 | 0.34 | -1.45 | -0.58 | 0.54 | 0.75 | 0.32 | | |
| A7-SQUARE CUT DIESEL | | | | | | | | | | |
| A8-FIELD PISTON | | | | | | | | | | |
| B1-SEQUENCE III | 0.22 | 0.67 | 0.15 | -0.96 | 0.13 | -0.25 | 0.07 | 0.11 | | |
| B2-SEQUENCE III | 0.68 | 0.71 | 0.21 | -0.69 | 0.65 | -2.12 | 0.20 | -0.61 | | |
| B3-SEQUENCE III | | | | | | | | | | |
| B4-SEQUENCE III | | | | | | | | | | |
| B5-SQUARE CUT DIESEL | | | | | | | | | | |
| B6-SEQUENCE III | | | | | | | | | | |
| B7-SQUARE CUT DIESEL | | | | | | | | | | |
| B8-FIELD PISTON | | | | | | | | | | |
| C1-SEQUENCE III | 0.37 | 0.70 | 0.33 | -0.34 | -0.42 | -0.51 | -0.70 | -0.28 | | |
| C2-SEQUENCE III | | | | | | | | | | |
| C3-SEQUENCE III | | | | | | | | | | |
| C4-SEQUENCE III | | | | | | | | | | |
| C5-SQUARE CUT DIESEL | | | | | | | | | | |
| C6-SEQUENCE III | | | | | | | | | | |
| C7-SQUARE CUT DIESEL | | | | | | | | | | |
| C8-FIELD PISTON | | | | | | | | | | |
| CAL-A-CAL. SEQ. III PISTON | -0.18 | 0.89 | 1.01 | -0.07 | 0.39 | -0.55 | 0.26 | -0.42 | | |
| CAL-B-CAL. SEQ. III PISTON | 0.46 | 0.73 | 0.20 | -0.04 | -0.60 | 0.19 | 1.07 | 0.19 | | |
| CAL-C-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-D-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-M-CAL. DV4 PISTON | | | | | | | | | | |
| CAL-T-CAL. FIELD PISTON | | | | | | | | | | |
| X1-DV4 PISTON | | | | | | | | | | |
| Y1-DV4 PISTON | | | | | | | | | | |
| Z1-DV4 PISTON | | | | | | | | | | |
| MAXIMUM | 0.68 | 1.43 | 1.01 | -1.45 | 0.73 | -2.12 | 1.39 | 0.61 | | |
| MINIMUM | 0.06 | -0.17 | 0.04 | -0.04 | -0.04 | -0.13 | 0.07 | 0.11 | | |
| RANGE(MAX-MIN) | 0.620 | 1.600 | 0.970 | -1.410 | 0.770 | -1.990 | 1.320 | 0.500 | | |
| MEAN | 0.275 | 0.689 | 0.328 | -0.380 | 0.080 | -0.530 | 0.241 | -0.050 | | |
| STANDARD DEVIATION | 0.288 | 0.449 | 0.291 | 0.550 | 0.483 | 0.802 | 0.683 | 0.389 | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Veiga, Victor

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT | G4TOT | L4TOT |
|----------------------------|--------|--------|-------|-------|--------|--------|-------|--------|--------|-------|
| A1-SEQUENCE III | 0.25 | 0.70 | 1.37 | -0.28 | -0.65 | 0.41 | 0.25 | -0.07 | | |
| A2-SEQUENCE III | 0.46 | -0.68 | 0.84 | -0.18 | 1.15 | -2.35 | 1.39 | -1.85 | | |
| A3-SEQUENCE III | -0.73 | 0.88 | -0.68 | 1.29 | 0.36 | -1.16 | -0.95 | -1.62 | | |
| A4-SEQUENCE III | -1.40 | 0.37 | -0.98 | -0.25 | 0.15 | 1.19 | 0.01 | -1.85 | | |
| A5-SQUARE CUT DIESEL | | | | | | | | | | |
| A6-SEQUENCE III | -0.70 | -1.16 | 2.00 | -0.89 | -0.74 | -0.49 | 1.47 | -1.64 | | |
| A7-SQUARE CUT DIESEL | | | | | | | | | | |
| A8-FIELD PISTON | | | | | | | | | | |
| B1-SEQUENCE III | 1.05 | -2.57 | 0.15 | 0.39 | 0.92 | -0.47 | -0.52 | -2.43 | | |
| B2-SEQUENCE III | -0.98 | 2.08 | 0.78 | 0.04 | 1.16 | 0.49 | 0.83 | -2.17 | | |
| B3-SEQUENCE III | -0.06 | -1.16 | 0.67 | -0.50 | -0.59 | 0.07 | 0.38 | -1.59 | | |
| B4-SEQUENCE III | -0.76 | -0.92 | 0.28 | 0.24 | -0.56 | -0.24 | -0.09 | -1.13 | | |
| B5-SQUARE CUT DIESEL | -1.00 | 1.32 | 0.92 | -0.72 | 0.21 | | | | -0.88 | -0.27 |
| B6-SEQUENCE III | 0.86 | -0.31 | 0.31 | -0.27 | 0.09 | 0.21 | 0.55 | -0.84 | | |
| B7-SQUARE CUT DIESEL | 0.59 | 0.25 | 0.30 | -1.16 | 0.24 | | | | -0.73 | 0.45 |
| B8-FIELD PISTON | 0.69 | 0.26 | 1.64 | -0.02 | 1.74 | | 1.25 | 2.13 | | |
| C1-SEQUENCE III | -0.99 | -0.93 | 1.29 | -0.53 | -0.31 | -1.64 | -1.14 | -2.37 | | |
| C2-SEQUENCE III | -0.74 | -0.43 | -0.07 | -0.65 | 0.10 | 0.29 | 0.39 | -1.70 | | |
| C3-SEQUENCE III | -1.25 | 0.56 | -0.43 | 0.40 | 1.42 | -2.17 | -1.83 | -2.36 | | |
| C4-SEQUENCE III | -0.81 | 0.43 | 0.88 | 0.95 | -0.02 | 0.47 | 0.40 | -2.21 | | |
| C5-SQUARE CUT DIESEL | | | | | | | | | | |
| C6-SEQUENCE III | -1.45 | 0.95 | 0.25 | 0.82 | 0.61 | 1.07 | 1.24 | -1.94 | | |
| C7-SQUARE CUT DIESEL | | | | | | | | | | |
| C8-FIELD PISTON | | | | | | | | | | |
| CAL-A-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-B-CAL. SEQ. III PISTON | -0.28 | 0.73 | 1.02 | 1.77 | -0.55 | 0.77 | 0.99 | -1.16 | | |
| CAL-C-CAL. SEQ. III PISTON | -0.35 | 2.26 | 0.88 | -0.11 | 1.64 | 0.94 | 0.42 | -0.68 | | |
| CAL-D-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-M-CAL. DV4 PISTON | -1.31 | -0.23 | -0.31 | -0.26 | -2.35 | | | | | |
| CAL-T-CAL. FIELD PISTON | 0.08 | -1.13 | -0.24 | 0.35 | -0.42 | | 2.13 | 1.54 | | |
| X1-DV4 PISTON | | | | | | | | | | |
| Y1-DV4 PISTON | -0.35 | 0.31 | -0.97 | 0.24 | 0.35 | | | | | |
| Z1-DV4 PISTON | 0.01 | -0.05 | -0.01 | -0.07 | 0.04 | | | | | |
| MAXIMUM | -1.45 | -2.57 | 2.00 | 1.77 | -2.35 | -2.35 | 2.13 | -2.43 | -0.88 | 0.45 |
| MINIMUM | 0.01 | -0.05 | -0.01 | -0.02 | -0.02 | 0.07 | 0.01 | -0.07 | -0.73 | -0.27 |
| RANGE(MAX-MIN) | -1.460 | -2.520 | 2.010 | 1.790 | -2.330 | -2.420 | 2.120 | -2.360 | -0.150 | 0.720 |
| MEAN | -0.382 | 0.064 | 0.412 | 0.025 | 0.166 | -0.154 | 0.377 | -1.260 | -0.805 | 0.090 |
| STANDARD DEVIATION | 0.748 | 1.098 | 0.792 | 0.687 | 0.911 | 1.095 | 0.987 | 1.260 | 0.106 | 0.509 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Viera, Ralph B.

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | I2TOT | I3TOT | UCTOT | THTOT | ATTOT | G4TOT | I4TOT | |
|----------------------------|--------|--------|--------|-------|--------|--------|--------|-------|--------|-------|--|
| A1-SEQUENCE III | | | | | | | | | | | |
| A2-SEQUENCE III | | | | | | | | | | | |
| A3-SEQUENCE III | | | | | | | | | | | |
| A4-SEQUENCE III | | | | | | | | | | | |
| A5-SQUARE CUT DIESEL | | | | | | | | | | | |
| A6-SEQUENCE III | | | | | | | | | | | |
| A7-SQUARE CUT DIESEL | | | | | | | | | | | |
| A8-FIELD PISTON | | | | | | | | | | | |
| B1-SEQUENCE III | | | | | | | | | | | |
| B2-SEQUENCE III | | | | | | | | | | | |
| B3-SEQUENCE III | | | | | | | | | | | |
| B4-SEQUENCE III | | | | | | | | | | | |
| B5-SQUARE CUT DIESEL | | | | | | | | | | | |
| B6-SEQUENCE III | | | | | | | | | | | |
| B7-SQUARE CUT DIESEL | | | | | | | | | | | |
| B8-FIELD PISTON | | | | | | | | | | | |
| C1-SEQUENCE III | -0.63 | 0.70 | 0.40 | -0.53 | -0.31 | -0.90 | 1.65 | 1.38 | | | |
| C2-SEQUENCE III | 0.10 | -3.00 | -0.10 | 0.22 | -0.15 | 0.14 | -0.21 | 2.02 | | | |
| C3-SEQUENCE III | -0.59 | -0.87 | 0.50 | 0.19 | -0.23 | -0.11 | 1.41 | 1.06 | | | |
| C4-SEQUENCE III | -0.39 | -0.90 | 0.22 | 0.11 | 1.07 | -0.17 | -1.97 | 1.03 | | | |
| C5-SQUARE CUT DIESEL | -0.11 | -0.80 | -1.02 | 0.91 | -0.52 | | | | -2.36 | 0.15 | |
| C6-SEQUENCE III | 0.06 | -0.28 | 0.10 | -0.16 | 0.83 | -0.19 | 0.13 | 1.40 | | | |
| C7-SQUARE CUT DIESEL | -1.82 | -0.57 | 0.30 | -0.31 | 0.42 | | | | 0.75 | 0.59 | |
| C8-FIELD PISTON | 1.02 | -0.59 | 1.43 | 1.35 | -0.11 | | 1.65 | 0.04 | | | |
| CAL-A-CAL. SEQ. III PISTON | 0.23 | -0.41 | 0.56 | 0.31 | -0.29 | -0.92 | 0.91 | 1.42 | | | |
| CAL-B-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-C-CAL. SEQ. III PISTON | | | | | | | | | | | |
| CAL-D-CAL. SEQ. III PISTON | -0.14 | 0.19 | -0.84 | -0.43 | 1.63 | -0.38 | -0.94 | 1.01 | | | |
| CAL-M-CAL. DV4 PISTON | -0.68 | 0.18 | -0.36 | -0.31 | -0.38 | | | | | | |
| CAL-T-CAL. FIELD PISTON | -0.39 | -0.22 | 0.03 | -0.21 | -0.64 | | -1.45 | -0.49 | | | |
| X1-DV4 PISTON | 0.51 | 1.65 | 0.60 | -0.47 | 0.22 | | | | | | |
| Y1-DV4 PISTON | 1.06 | -1.81 | -2.74 | 0.34 | -1.31 | | | | | | |
| Z1-DV4 PISTON | -1.17 | -0.23 | -2.09 | 0.88 | -1.68 | | | | | | |
| MAXIMUM | -1.82 | -3.00 | -2.74 | 1.35 | -1.68 | -0.92 | -1.97 | 2.02 | -2.36 | 0.59 | |
| MINIMUM | 0.06 | 0.18 | 0.03 | 0.11 | -0.11 | -0.11 | 0.13 | 0.04 | 0.75 | 0.15 | |
| RANGE(MAX-MIN) | -1.880 | -3.180 | -2.770 | 1.240 | -1.570 | -0.810 | -2.100 | 1.980 | -3.110 | 0.440 | |
| MEAN | -0.196 | -0.464 | -0.201 | 0.126 | -0.097 | -0.361 | 0.131 | 0.986 | -0.805 | 0.370 | |
| STANDARD DEVIATION | 0.762 | 1.054 | 1.083 | 0.563 | 0.854 | 0.405 | 1.371 | 0.764 | 2.199 | 0.311 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Zalewski, John

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | G1TOT | G2TOT | G3TOT | L2TOT | L3TOT | UCTOT | THTOT | ATTOT | G4TOT | L4TOT |
|----------------------------|--------|--------|--------|-------|-------|--------|--------|--------|-------|--------|
| A1-SEQUENCE III | 0.25 | 0.18 | 0.43 | -0.50 | -0.12 | 0.41 | -2.46 | -2.19 | | |
| A2-SEQUENCE III | 1.02 | -0.68 | 0.14 | -0.59 | 0.59 | -1.08 | -1.01 | 1.36 | | |
| A3-SEQUENCE III | 1.39 | -1.79 | 0.30 | 2.25 | 0.23 | -0.26 | 1.22 | 0.77 | | |
| A4-SEQUENCE III | 0.51 | -3.49 | 0.77 | -0.83 | 1.04 | -0.47 | 0.95 | 1.27 | | |
| A5-SQUARE CUT DIESEL | -1.65 | -1.20 | 0.22 | -0.52 | -0.17 | | | | 0.28 | -1.61 |
| A6-SEQUENCE III | 0.18 | 0.82 | 0.03 | 1.55 | 0.31 | 0.88 | 0.51 | 0.14 | | |
| A7-SQUARE CUT DIESEL | -0.84 | 0.48 | -0.44 | 0.54 | 0.24 | | | | 0.57 | 0.34 |
| A8-FIELD PISTON | 0.00 | 1.58 | 1.18 | 0.34 | 0.29 | | -0.07 | -0.35 | | |
| B1-SEQUENCE III | | | | | | | | | | |
| B2-SEQUENCE III | | | | | | | | | | |
| B3-SEQUENCE III | | | | | | | | | | |
| B4-SEQUENCE III | | | | | | | | | | |
| B5-SQUARE CUT DIESEL | | | | | | | | | | |
| B6-SEQUENCE III | | | | | | | | | | |
| B7-SQUARE CUT DIESEL | | | | | | | | | | |
| B8-FIELD PISTON | | | | | | | | | | |
| C1-SEQUENCE III | | | | | | | | | | |
| C2-SEQUENCE III | | | | | | | | | | |
| C3-SEQUENCE III | | | | | | | | | | |
| C4-SEQUENCE III | | | | | | | | | | |
| C5-SQUARE CUT DIESEL | | | | | | | | | | |
| C6-SEQUENCE III | | | | | | | | | | |
| C7-SQUARE CUT DIESEL | | | | | | | | | | |
| C8-FIELD PISTON | | | | | | | | | | |
| CAL-A-CAL. SEQ. III PISTON | -0.45 | 0.42 | -1.81 | 0.56 | 0.29 | -0.10 | 0.97 | -0.09 | | |
| CAL-B-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-C-CAL. SEQ. III PISTON | | | | | | | | | | |
| CAL-D-CAL. SEQ. III PISTON | -0.02 | -0.72 | 1.13 | 2.36 | 1.14 | -0.46 | 0.00 | -0.46 | | |
| CAL-M-CAL. DV4 PISTON | -0.39 | -0.87 | 0.38 | 0.12 | 0.48 | | | | | |
| CAL-T-CAL. FIELD PISTON | -0.80 | 0.69 | -0.40 | 0.15 | -0.10 | | -0.40 | 0.70 | | |
| X1-DV4 PISTON | -0.02 | -0.74 | 0.11 | -1.15 | -0.05 | | | | | |
| Y1-DV4 PISTON | 0.35 | 1.18 | 0.10 | -0.17 | -0.03 | | | | | |
| Z1-DV4 PISTON | | | | | | | | | | |
| MAXIMUM | -1.65 | -3.49 | -1.81 | 2.36 | 1.14 | -1.08 | -2.46 | -2.19 | 0.57 | -1.61 |
| MINIMUM | 0.00 | 0.18 | 0.03 | 0.12 | -0.03 | -0.10 | 0.00 | -0.09 | 0.28 | 0.34 |
| RANGE(MAX-MIN) | -1.650 | -3.670 | -1.840 | 2.240 | 1.170 | -0.980 | -2.460 | -2.100 | 0.290 | -1.950 |
| MEAN | -0.034 | -0.296 | 0.153 | 0.294 | 0.296 | -0.154 | -0.032 | 0.128 | 0.425 | -0.635 |
| STANDARD DEVIATION | 0.777 | 1.341 | 0.738 | 1.092 | 0.408 | 0.639 | 1.163 | 1.093 | 0.205 | 1.379 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Adams, Patrick

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| E1-4-CAL. SEQ. V PISTONS | 0.93 | 1.19 | 0.76 | 1.01 | | | | | | |
| F1-4-CAL. SEQ. V PISTONS | 0.72 | 1.11 | 0.98 | -0.03 | | | | | | |
| G1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| H1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| P1-8-SEQ. V PISTONS | 0.11 | -0.34 | -1.44 | -0.91 | -0.54 | -0.26 | -0.62 | -0.87 | | |
| Q1-8-SEQ. V PISTONS | 0.40 | 0.95 | -0.07 | -0.04 | -0.82 | -0.23 | -0.38 | -0.96 | | |
| R1-8-SEQ. V PISTONS | | | | | | | | | | |
| S1-8-SEQ. V PISTONS | | | | | | | | | | |
| VRCBVL-RC BFL VARN L | | | | | | | | | -0.26 | |
| VRCBVR-RC BFL VARN R | | | | | | | | | -0.19 | |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | 1.03 | |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | 0.58 | |
| MAXIMUM | 0.93 | 1.19 | -1.44 | 1.01 | -0.82 | -0.26 | -0.62 | -0.96 | 1.03 | |
| MINIMUM | 0.11 | -0.34 | -0.07 | -0.03 | -0.54 | -0.23 | -0.38 | -0.87 | -0.19 | |
| RANGE(MAX-MIN) | 0.820 | 1.530 | -1.370 | 1.040 | -0.280 | -0.030 | -0.240 | -0.090 | 1.220 | |
| MEAN | 0.540 | 0.728 | 0.058 | 0.007 | -0.680 | -0.245 | -0.500 | -0.915 | 0.290 | |
| STANDARD DEVIATION | 0.360 | 0.719 | 1.096 | 0.785 | 0.198 | 0.021 | 0.170 | 0.064 | 0.623 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Aguirre, Nancy P

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| E1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| F1-4-CAL. SEQ. V PISTONS | -1.62 | -1.36 | -0.96 | -0.31 | | | | | | |
| G1-4-CAL. SEQ. V PISTONS | -0.58 | -0.13 | -0.46 | -0.23 | | | | | | |
| H1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| P1-8-SEQ. V PISTONS | | | | | | | | | | |
| Q1-8-SEQ. V PISTONS | -0.44 | -1.59 | -0.39 | -0.17 | -1.68 | -1.53 | -0.38 | -0.81 | | |
| R1-8-SEQ. V PISTONS | -1.08 | -0.77 | -0.60 | -0.60 | -1.86 | -0.91 | -0.80 | -0.86 | | |
| S1-8-SEQ. V PISTONS | | | | | | | | | | |
| VRCBVL-RC BFL VARN L | | | | | | | | | -0.51 | |
| VRCBVR-RC BFL VARN R | | | | | | | | | -0.59 | |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | -1.67 | |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | -0.32 | |
| MAXIMUM | -1.62 | -1.59 | -0.96 | -0.60 | -1.86 | -1.53 | -0.80 | -0.86 | -1.67 | |
| MINIMUM | -0.44 | -0.13 | -0.39 | -0.17 | -1.68 | -0.91 | -0.38 | -0.81 | -0.32 | |
| RANGE(MAX-MIN) | -1.180 | -1.460 | -0.570 | -0.430 | -0.180 | -0.620 | -0.420 | -0.050 | -1.350 | |
| MEAN | -0.930 | -0.963 | -0.603 | -0.328 | -1.770 | -1.220 | -0.590 | -0.835 | -0.773 | |
| STANDARD DEVIATION | 0.536 | 0.654 | 0.254 | 0.191 | 0.127 | 0.438 | 0.297 | 0.035 | 0.609 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Avis, Steven

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| E1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| F1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| G1-4-CAL. SEQ. V PISTONS | 1.01 | 0.16 | 0.56 | 0.97 | | | | | | |
| H1-4-CAL. SEQ. V PISTONS | 1.00 | 0.81 | 0.46 | 0.58 | | | | | | |
| P1-8-SEQ. V PISTONS | | | | | | | | | | |
| Q1-8-SEQ. V PISTONS | | | | | | | | | | |
| R1-8-SEQ. V PISTONS | 0.35 | 0.62 | 0.88 | 0.97 | 0.76 | 0.72 | 1.14 | 0.99 | | |
| S1-8-SEQ. V PISTONS | -0.22 | -0.34 | -0.08 | 0.25 | 0.08 | -0.30 | 0.33 | -0.07 | | |
| VRCBVL-RC BFL VARN L | | | | | | | | | 1.47 | |
| VRCBVR-RC BFL VARN R | | | | | | | | | 1.10 | |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | 0.76 | |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | 0.52 | |
| MAXIMUM | 1.01 | 0.81 | 0.88 | 0.97 | 0.76 | 0.72 | 1.14 | 0.99 | 1.47 | |
| MINIMUM | -0.22 | 0.16 | -0.08 | 0.25 | 0.08 | -0.30 | 0.33 | -0.07 | 0.52 | |
| RANGE(MAX-MIN) | 1.230 | 0.650 | 0.960 | 0.720 | 0.680 | 1.020 | 0.810 | 1.060 | 0.950 | |
| MEAN | 0.535 | 0.313 | 0.455 | 0.693 | 0.420 | 0.210 | 0.735 | 0.460 | 0.963 | |
| STANDARD DEVIATION | 0.591 | 0.514 | 0.399 | 0.348 | 0.481 | 0.721 | 0.573 | 0.750 | 0.414 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Barrera, Tony

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| E1-4-CAL. SEQ. V PISTONS | 0.24 | -0.88 | -0.40 | -0.29 | | | | | | |
| F1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| G1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| H1-4-CAL. SEQ. V PISTONS | -1.48 | -1.43 | -1.49 | -1.56 | | | | | | |
| P1-8-SEQ. V PISTONS | -1.25 | -1.20 | -0.60 | -0.88 | -1.02 | -0.78 | -0.78 | -0.43 | | |
| Q1-8-SEQ. V PISTONS | | | | | | | | | | |
| R1-8-SEQ. V PISTONS | -0.74 | -0.99 | -1.38 | -1.19 | -0.91 | -1.08 | -1.25 | -1.22 | | |
| S1-8-SEQ. V PISTONS | -0.43 | -1.37 | -0.76 | -0.72 | -0.48 | -0.71 | -1.01 | -0.96 | | |
| VRCBVL-RC BFL VARN L | | | | | | | | | -0.14 | |
| VRCBVR-RC BFL VARN R | | | | | | | | | -0.19 | |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | -0.05 | |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | 0.05 | |
| MAXIMUM | -1.48 | -1.43 | -1.49 | -1.56 | -1.02 | -1.08 | -1.25 | -1.22 | -0.19 | |
| MINIMUM | 0.24 | -0.88 | -0.40 | -0.29 | -0.48 | -0.71 | -0.78 | -0.43 | -0.05 | |
| RANGE(MAX-MIN) | -1.720 | -0.550 | -1.090 | -1.270 | -0.540 | -0.370 | -0.470 | -0.790 | -0.140 | |
| MEAN | -0.732 | -1.174 | -0.926 | -0.928 | -0.803 | -0.857 | -1.013 | -0.870 | -0.083 | |
| STANDARD DEVIATION | 0.683 | 0.237 | 0.483 | 0.480 | 0.285 | 0.197 | 0.235 | 0.403 | 0.106 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Cales, Jonathon

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| E1-4-CAL. SEQ. V PISTONS | 0.42 | 0.62 | 0.57 | 0.33 | | | | | | |
| F1-4-CAL. SEQ. V PISTONS | 0.50 | 0.67 | 0.42 | 0.75 | | | | | | |
| G1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| H1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| P1-8-SEQ. V PISTONS | -0.40 | -0.34 | -0.23 | -0.47 | -0.88 | -0.44 | -0.09 | -0.32 | | |
| Q1-8-SEQ. V PISTONS | 0.40 | -0.04 | -0.07 | -0.17 | 0.13 | 0.42 | 0.00 | 0.24 | | |
| R1-8-SEQ. V PISTONS | | | | | | | | | | |
| S1-8-SEQ. V PISTONS | | | | | | | | | | |
| VRCBVL-RC BFL VARN L | | | | | | | | | -2.00 | |
| VRCBVR-RC BFL VARN R | | | | | | | | | 0.80 | |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | 0.58 | |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | 0.10 | |
| MAXIMUM | 0.50 | 0.67 | 0.57 | 0.75 | -0.88 | -0.44 | -0.09 | -0.32 | -2.00 | |
| MINIMUM | -0.40 | -0.04 | -0.07 | -0.17 | 0.13 | 0.42 | 0.00 | 0.24 | 0.10 | |
| RANGE(MAX-MIN) | 0.900 | 0.710 | 0.640 | 0.920 | -1.010 | -0.860 | -0.090 | -0.560 | -2.100 | |
| MEAN | 0.230 | 0.228 | 0.173 | 0.110 | -0.375 | -0.010 | -0.045 | -0.040 | -0.130 | |
| STANDARD DEVIATION | 0.422 | 0.498 | 0.383 | 0.539 | 0.714 | 0.608 | 0.064 | 0.396 | 1.280 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Campbell, Bryan

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| E1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| F1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| G1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| H1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| P1-8-SEQ. V PISTONS | | | | | | | | | |
| Q1-8-SEQ. V PISTONS | | | | | | | | | |
| R1-8-SEQ. V PISTONS | | | | | | | | | |
| S1-8-SEQ. V PISTONS | | | | | | | | | |
| VRCBVL-RC BFL VARN L | | | | | | | | | 0.11 |
| VRCBVR-RC BFL VARN R | | | | | | | | | -0.69 |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | -2.74 |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | -3.64 |
| MAXIMUM | | | | | | | | | -3.64 |
| MINIMUM | | | | | | | | | 0.11 |
| RANGE(MAX-MIN) | | | | | | | | | -3.750 |
| MEAN | | | | | | | | | -1.740 |
| STANDARD DEVIATION | | | | | | | | | 1.745 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Caproni, David

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| E1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| F1-4-CAL. SEQ. V PISTONS | 0.61 | -0.02 | 0.94 | 0.63 | | | | | |
| G1-4-CAL. SEQ. V PISTONS | 0.60 | 0.59 | 0.71 | 1.07 | | | | | |
| H1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| P1-8-SEQ. V PISTONS | | | | | | | | | |
| Q1-8-SEQ. V PISTONS | 0.40 | -0.60 | -1.69 | -1.06 | 0.13 | 0.59 | -2.37 | -1.17 | |
| R1-8-SEQ. V PISTONS | -0.65 | -0.37 | -0.13 | -0.07 | -0.23 | -0.01 | 0.11 | 0.04 | |
| S1-8-SEQ. V PISTONS | | | | | | | | | |
| VRCBVL-RC BFL VARN L | | | | | | | | | 0.73 |
| VRCBVR-RC BFL VARN R | | | | | | | | | -0.19 |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | -0.05 |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | 0.05 |
| MAXIMUM | -0.65 | -0.60 | -1.69 | 1.07 | -0.23 | 0.59 | -2.37 | -1.17 | 0.73 |
| MINIMUM | 0.40 | -0.02 | -0.13 | -0.07 | 0.13 | -0.01 | 0.11 | 0.04 | -0.05 |
| RANGE(MAX-MIN) | -1.050 | -0.580 | -1.560 | 1.140 | -0.360 | 0.600 | -2.480 | -1.210 | 0.780 |
| MEAN | 0.240 | -0.100 | -0.043 | 0.143 | -0.050 | 0.290 | -1.130 | -0.565 | 0.135 |
| STANDARD DEVIATION | 0.601 | 0.518 | 1.191 | 0.929 | 0.255 | 0.424 | 1.754 | 0.856 | 0.409 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Castillo, George

Yi Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| E1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| F1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| G1-4-CAL. SEQ. V PISTONS | -1.09 | -0.07 | -1.11 | 0.07 | | | | | | |
| H1-4-CAL. SEQ. V PISTONS | -0.11 | -0.47 | -0.81 | -1.08 | | | | | | |
| P1-8-SEQ. V PISTONS | | | | | | | | | | |
| Q1-8-SEQ. V PISTONS | | | | | | | | | | |
| R1-8-SEQ. V PISTONS | -1.08 | -0.71 | -1.01 | -0.86 | -0.11 | -1.14 | -0.59 | -1.28 | | |
| S1-8-SEQ. V PISTONS | -1.23 | -1.03 | -1.24 | -1.40 | -1.89 | -1.34 | -1.28 | -1.07 | | |
| VRCBVL-RC BFL VARN L | | | | | | | | | | -1.25 |
| VRCBVR-RC BFL VARN R | | | | | | | | | | -1.38 |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | | 0.40 |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | | 0.42 |
| MAXIMUM | -1.23 | -1.03 | -1.24 | -1.40 | -1.89 | -1.34 | -1.28 | -1.28 | -1.38 | |
| MINIMUM | -0.11 | -0.07 | -0.81 | 0.07 | -0.11 | -1.14 | -0.59 | -1.07 | 0.40 | |
| RANGE(MAX-MIN) | -1.120 | -0.960 | -0.430 | -1.470 | -1.780 | -0.200 | -0.690 | -0.210 | -1.780 | |
| MEAN | -0.878 | -0.570 | -1.043 | -0.818 | -1.000 | -1.240 | -0.935 | -1.175 | -0.453 | |
| STANDARD DEVIATION | 0.516 | 0.405 | 0.181 | 0.632 | 1.259 | 0.141 | 0.488 | 0.148 | 0.997 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Cumberworth, Lee

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| E1-4-CAL. SEQ. V PISTONS | 0.06 | 0.30 | 0.08 | 0.26 | | | | | |
| F1-4-CAL. SEQ. V PISTONS | -0.33 | 0.02 | 0.54 | -0.18 | | | | | |
| G1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| H1-4-CAL. SEQ. V PISTONS | -0.06 | -0.20 | 0.12 | -0.04 | | | | | |
| P1-8-SEQ. V PISTONS | | | | | | | | | |
| Q1-8-SEQ. V PISTONS | | | | | | | | | |
| R1-8-SEQ. V PISTONS | | | | | | | | | |
| S1-8-SEQ. V PISTONS | | | | | | | | | |
| VRCBVL-RC BFL VARN L | | | | | | | | | -0.39 |
| VRCBVR-RC BFL VARN R | | | | | | | | | 0.80 |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | 0.31 |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | 0.58 |
| MAXIMUM | -0.33 | 0.30 | 0.54 | 0.26 | | | | | 0.80 |
| MINIMUM | 0.06 | 0.02 | 0.08 | -0.04 | | | | | 0.31 |
| RANGE(MAX-MIN) | -0.390 | 0.280 | 0.460 | 0.300 | | | | | 0.490 |
| MEAN | -0.110 | 0.040 | 0.247 | 0.013 | | | | | 0.325 |
| STANDARD DEVIATION | 0.200 | 0.251 | 0.255 | 0.225 | | | | | 0.517 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Foecking, Brian

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| E1-4-CAL. SEQ. V PISTONS | 0.24 | 0.30 | 0.25 | 0.33 | | | | | |
| F1-4-CAL. SEQ. V PISTONS | 0.72 | 0.54 | 0.09 | 0.16 | | | | | |
| G1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| H1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| P1-8-SEQ. V PISTONS | | | | | | | | | |
| Q1-8-SEQ. V PISTONS | | | | | | | | | |
| R1-8-SEQ. V PISTONS | | | | | | | | | |
| S1-8-SEQ. V PISTONS | | | | | | | | | |
| VRCBVL-RC BFL VARN L | | | | | | | | | -1.75 |
| VRCBVR-RC BFL VARN R | | | | | | | | | -0.19 |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | -1.31 |
| VVICALR-CAL RC BFL VARN R | | | | | | | | | -0.11 |
| MAXIMUM | 0.72 | 0.54 | 0.25 | 0.33 | | | | | -1.75 |
| MINIMUM | 0.24 | 0.30 | 0.09 | 0.16 | | | | | -0.11 |
| RANGE(MAX-MIN) | 0.480 | 0.240 | 0.160 | 0.170 | | | | | -1.640 |
| MEAN | 0.480 | 0.420 | 0.170 | 0.245 | | | | | -0.840 |
| STANDARD DEVIATION | 0.339 | 0.170 | 0.113 | 0.120 | | | | | 0.817 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Greenland, Paul

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| E1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| F1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| G1-4-CAL. SEQ. V PISTONS | -0.26 | -0.50 | -0.28 | -1.17 | | | | | |
| H1-4-CAL. SEQ. V PISTONS | -0.21 | 0.22 | 0.18 | 0.48 | | | | | |
| P1-8-SEQ. V PISTONS | | | | | | | | | |
| Q1-8-SEQ. V PISTONS | 0.40 | 0.51 | 0.74 | -0.23 | 0.13 | -0.23 | 0.14 | 0.24 | |
| R1-8-SEQ. V PISTONS | | | | | | | | | |
| S1-8-SEQ. V PISTONS | | | | | | | | | |
| VRCBVL-RC BFL VARN L | | | | | | | | | |
| VRCBVR-RC BFL VARN R | | | | | | | | | |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | |
| MAXIMUM | 0.40 | 0.51 | 0.74 | -1.17 | 0.13 | -0.23 | 0.14 | 0.24 | |
| MINIMUM | -0.21 | 0.22 | 0.18 | -0.23 | 0.13 | -0.23 | 0.14 | 0.24 | |
| RANGE(MAX-MIN) | 0.610 | 0.290 | 0.560 | -0.940 | 0.000 | 0.000 | 0.000 | 0.000 | |
| MEAN | -0.023 | 0.077 | 0.213 | -0.307 | 0.130 | -0.230 | 0.140 | 0.240 | |
| STANDARD DEVIATION | 0.367 | 0.520 | 0.511 | 0.828 | 0.000 | 0.000 | 0.000 | 0.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Grundza, Richard

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| E1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| F1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| G1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| H1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| P1-8-SEQ. V PISTONS | | | | | | | | | |
| Q1-8-SEQ. V PISTONS | -0.65 | -1.70 | -1.69 | -1.69 | 0.13 | -0.23 | -0.75 | -0.46 | |
| R1-8-SEQ. V PISTONS | | | | | | | | | |
| S1-8-SEQ. V PISTONS | | | | | | | | | |
| VRCBVL-RC BFL VARN L | | | | | | | | | |
| VRCBVR-RC BFL VARN R | | | | | | | | | |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | |
| MAXIMUM | -0.65 | -1.70 | -1.69 | -1.69 | 0.13 | -0.23 | -0.75 | -0.46 | |
| MINIMUM | -0.65 | -1.70 | -1.69 | -1.69 | 0.13 | -0.23 | -0.75 | -0.46 | |
| RANGE(MAX-MIN) | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| MEAN | -0.650 | -1.700 | -1.690 | -1.690 | 0.130 | -0.230 | -0.750 | -0.460 | |
| STANDARD DEVIATION | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Hills, Barry

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| E1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| F1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| G1-4-CAL. SEQ. V PISTONS | -0.46 | -0.01 | 0.60 | 0.90 | | | | | | |
| H1-4-CAL. SEQ. V PISTONS | -0.72 | -0.79 | -0.47 | -0.49 | | | | | | |
| P1-8-SEQ. V PISTONS | | | | | | | | | | |
| Q1-8-SEQ. V PISTONS | | | | | | | | | | |
| R1-8-SEQ. V PISTONS | -0.86 | -0.50 | -0.10 | -0.18 | -1.71 | -0.65 | -0.32 | -0.32 | | |
| S1-8-SEQ. V PISTONS | -0.06 | 0.26 | 0.43 | 0.60 | -0.37 | -0.39 | 0.08 | 0.03 | | |
| VRCBVL-RC BFL VARN L | | | | | | | | | 1.72 | |
| VRCBVR-RC BFL VARN R | | | | | | | | | 0.80 | |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | 0.85 | |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | 0.58 | |
| MAXIMUM | -0.86 | -0.79 | 0.60 | 0.90 | -1.71 | -0.65 | -0.32 | -0.32 | 1.72 | |
| MINIMUM | -0.06 | -0.01 | -0.10 | -0.18 | -0.37 | -0.39 | 0.08 | 0.03 | 0.58 | |
| RANGE(MAX-MIN) | -0.800 | -0.780 | 0.700 | 1.080 | -1.340 | -0.260 | -0.400 | -0.350 | 1.140 | |
| MEAN | -0.525 | -0.260 | 0.115 | 0.208 | -1.040 | -0.520 | -0.120 | -0.145 | 0.988 | |
| STANDARD DEVIATION | 0.352 | 0.473 | 0.491 | 0.651 | 0.948 | 0.184 | 0.283 | 0.247 | 0.502 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Hurst, Kevin R.

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| E1-4-CAL. SEQ. V PISTONS | -0.38 | 0.39 | 0.50 | 0.22 | | | | | | |
| F1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| G1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| H1-4-CAL. SEQ. V PISTONS | 0.65 | 0.49 | 0.96 | 1.17 | | | | | | |
| P1-8-SEQ. V PISTONS | 1.34 | 1.49 | 1.51 | 1.48 | 0.98 | 1.06 | 1.06 | 1.14 | | |
| Q1-8-SEQ. V PISTONS | 0.92 | 0.51 | 0.42 | 0.85 | 1.09 | 0.99 | 1.03 | 0.95 | | |
| R1-8-SEQ. V PISTONS | 1.49 | 1.45 | 1.54 | 1.42 | 0.76 | 1.09 | 1.35 | 1.33 | | |
| S1-8-SEQ. V PISTONS | 1.18 | 1.29 | 1.14 | 1.14 | 0.77 | 1.25 | 1.31 | 1.41 | | |
| VRCBVL-RC BFL VARN L | | | | | | | | | 0.11 | |
| VRCBVR-RC BFL VARN R | | | | | | | | | 0.11 | |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | -0.05 | |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | -0.06 | |
| MAXIMUM | 1.49 | 1.49 | 1.54 | 1.48 | 1.09 | 1.25 | 1.35 | 1.41 | 0.11 | |
| MINIMUM | -0.38 | 0.39 | 0.42 | 0.22 | 0.76 | 0.99 | 1.03 | 0.95 | -0.05 | |
| RANGE(MAX-MIN) | 1.870 | 1.100 | 1.120 | 1.260 | 0.330 | 0.260 | 0.320 | 0.460 | 0.160 | |
| MEAN | 0.867 | 0.937 | 1.012 | 1.047 | 0.900 | 1.098 | 1.188 | 1.208 | 0.028 | |
| STANDARD DEVIATION | 0.680 | 0.524 | 0.481 | 0.463 | 0.162 | 0.110 | 0.166 | 0.206 | 0.095 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Kobrinetz, Joaquin J.

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| E1-4-CAL. SEQ. V PISTONS | -0.01 | 0.11 | 0.28 | 0.07 | | | | | |
| F1-4-CAL. SEQ. V PISTONS | -0.22 | -0.06 | 0.74 | -0.37 | | | | | |
| G1-4-CAL. SEQ. V PISTONS | 0.34 | 0.07 | -0.46 | -0.07 | | | | | |
| H1-4-CAL. SEQ. V PISTONS | -0.67 | -0.47 | -0.06 | -0.97 | | | | | |
| P1-8-SEQ. V PISTONS | | | | | | | | | |
| Q1-8-SEQ. V PISTONS | | | | | | | | | |
| R1-8-SEQ. V PISTONS | | | | | | | | | |
| S1-8-SEQ. V PISTONS | | | | | | | | | |
| VRCBVL-RC BFL VARN L | | | | | | | | | |
| VRCBVR-RC BFL VARN R | | | | | | | | | |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | 1.03 |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | 1.00 |
| MAXIMUM | -0.67 | -0.47 | 0.74 | -0.97 | | | | | 1.03 |
| MINIMUM | -0.01 | -0.06 | -0.06 | 0.07 | | | | | 1.00 |
| RANGE(MAX-MIN) | -0.660 | -0.410 | 0.800 | -1.040 | | | | | 0.030 |
| MEAN | -0.140 | -0.088 | 0.125 | -0.335 | | | | | 1.015 |
| STANDARD DEVIATION | 0.422 | 0.265 | 0.509 | 0.461 | | | | | 0.021 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Kraemer, Vernon

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG | |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| E1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| F1-4-CAL. SEQ. V PISTONS | -1.16 | -1.88 | -0.51 | -0.68 | | | | | | |
| G1-4-CAL. SEQ. V PISTONS | -1.32 | -0.48 | -0.49 | -0.43 | | | | | | |
| H1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| P1-8-SEQ. V PISTONS | -1.50 | -1.16 | -0.60 | -0.55 | -0.99 | -0.75 | -0.43 | -0.63 | | |
| Q1-8-SEQ. V PISTONS | -2.85 | -1.04 | -0.72 | -0.49 | -1.30 | -2.18 | -0.82 | -0.81 | | |
| R1-8-SEQ. V PISTONS | -0.44 | -0.68 | -0.19 | -0.91 | -0.53 | -0.16 | -0.68 | -1.08 | | |
| S1-8-SEQ. V PISTONS | -0.63 | -1.00 | -0.76 | -0.20 | -0.95 | -0.55 | -0.49 | -0.55 | | |
| VRCBVL-RC BFL VARN L | | | | | | | | | -0.51 | |
| VRCBVR-RC BFL VARN R | | | | | | | | | -0.19 | |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | | |
| VVICALR-CAL RC BFL VARN R | | | | | | | | | | |
| MAXIMUM | -2.85 | -1.88 | -0.76 | -0.91 | -1.30 | -2.18 | -0.82 | -1.08 | -0.51 | |
| MINIMUM | -0.44 | -0.48 | -0.19 | -0.20 | -0.53 | -0.16 | -0.43 | -0.55 | -0.19 | |
| RANGE(MAX-MIN) | -2.410 | -1.400 | -0.570 | -0.710 | -0.770 | -2.020 | -0.390 | -0.530 | -0.320 | |
| MEAN | -1.317 | -1.040 | -0.545 | -0.543 | -0.943 | -0.910 | -0.605 | -0.768 | -0.350 | |
| STANDARD DEVIATION | 0.854 | 0.483 | 0.205 | 0.239 | 0.316 | 0.881 | 0.179 | 0.235 | 0.226 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Lonsway, Chris

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| E1-4-CAL. SEQ. V PISTONS | 0.02 | -1.16 | -1.43 | -1.73 | | | | | | |
| F1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| G1-4-CAL. SEQ. V PISTONS | 0.50 | 0.01 | -0.31 | 0.13 | | | | | | |
| H1-4-CAL. SEQ. V PISTONS | 1.56 | 1.55 | 1.27 | 0.55 | | | | | | |
| P1-8-SEQ. V PISTONS | 0.45 | -0.01 | -0.91 | -0.83 | -0.34 | -0.66 | -0.76 | -0.96 | | |
| Q1-8-SEQ. V PISTONS | 0.92 | 0.51 | 0.01 | -0.68 | 1.09 | 1.40 | 0.22 | 0.32 | | |
| R1-8-SEQ. V PISTONS | | | | | | | | | | |
| S1-8-SEQ. V PISTONS | | | | | | | | | | |
| VRCBVL-RC BFL VARN L | | | | | | | | | 1.72 | |
| VRCBVR-RC BFL VARN R | | | | | | | | | 1.10 | |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | 0.49 | |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | 0.79 | |
| MAXIMUM | 1.56 | 1.55 | -1.43 | -1.73 | 1.09 | 1.40 | -0.76 | -0.96 | 1.72 | |
| MINIMUM | 0.02 | 0.01 | 0.01 | 0.13 | -0.34 | -0.66 | 0.22 | 0.32 | 0.49 | |
| RANGE(MAX-MIN) | 1.540 | 1.540 | -1.440 | -1.860 | 1.430 | 2.060 | -0.980 | -1.280 | 1.230 | |
| MEAN | 0.690 | 0.180 | -0.274 | -0.512 | 0.375 | 0.370 | -0.270 | -0.320 | 1.025 | |
| STANDARD DEVIATION | 0.581 | 0.981 | 1.026 | 0.888 | 1.011 | 1.457 | 0.693 | 0.905 | 0.526 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Lopez, Frank

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| E1-4-CAL. SEQ. V PISTONS | 0.86 | 1.37 | 0.89 | 0.83 | | | | | |
| F1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| G1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| H1-4-CAL. SEQ. V PISTONS | 1.30 | 1.09 | 0.90 | 0.58 | | | | | |
| P1-8-SEQ. V PISTONS | 0.41 | -0.34 | -0.78 | -0.94 | 0.13 | -0.66 | -1.77 | -1.14 | |
| Q1-8-SEQ. V PISTONS | | | | | | | | | |
| R1-8-SEQ. V PISTONS | | | | | | | | | |
| S1-8-SEQ. V PISTONS | -1.06 | -0.46 | -0.24 | -1.00 | 0.08 | -0.20 | -0.82 | -1.07 | |
| VRCBVL-RC BFL VARN L | | | | | | | | | 0.11 |
| VRCBVR-RC BFL VARN R | | | | | | | | | 0.80 |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | 1.03 |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | 0.58 |
| MAXIMUM | 1.30 | 1.37 | 0.90 | -1.00 | 0.13 | -0.66 | -1.77 | -1.14 | 1.03 |
| MINIMUM | 0.41 | -0.34 | -0.24 | 0.58 | 0.08 | -0.20 | -0.82 | -1.07 | 0.11 |
| RANGE(MAX-MIN) | 0.890 | 1.710 | 1.140 | -1.580 | 0.050 | -0.460 | -0.950 | -0.070 | 0.920 |
| MEAN | 0.378 | 0.415 | 0.193 | -0.133 | 0.105 | -0.430 | -1.295 | -1.105 | 0.630 |
| STANDARD DEVIATION | 1.025 | 0.949 | 0.841 | 0.973 | 0.035 | 0.325 | 0.672 | 0.049 | 0.392 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Lowry, Shannon

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| E1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| F1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| G1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| H1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| P1-8-SEQ. V PISTONS | | | | | | | | | | |
| Q1-8-SEQ. V PISTONS | | | | | | | | | | |
| R1-8-SEQ. V PISTONS | | | | | | | | | | |
| S1-8-SEQ. V PISTONS | | | | | | | | | | |
| VRCBVL-RC BFL VARN L | | | | | | | | | | |
| VRCBVR-RC BFL VARN R | | | | | | | | | | |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | | |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | | |
| MAXIMUM | | | | | | | | | | |
| MINIMUM | | | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | | | |
| MEAN | | | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Lowsky, John

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| E1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| F1-4-CAL. SEQ. V PISTONS | 1.14 | 1.49 | 1.43 | 1.75 | | | | | | |
| G1-4-CAL. SEQ. V PISTONS | 1.93 | 0.79 | 2.16 | 1.53 | | | | | | |
| H1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| P1-8-SEQ. V PISTONS | 0.49 | 1.56 | 1.54 | 1.76 | 1.69 | 1.48 | 1.47 | 1.78 | | |
| Q1-8-SEQ. V PISTONS | 0.92 | 1.61 | 2.04 | 1.99 | 1.57 | 1.15 | 1.25 | 1.80 | | |
| R1-8-SEQ. V PISTONS | 2.33 | 2.07 | 2.10 | 1.62 | 1.71 | 1.79 | 2.13 | 1.92 | | |
| S1-8-SEQ. V PISTONS | | | | | | | | | | |
| VRCBVL-RC BFL VARN L | | | | | | | | | 0.73 | |
| VRCBVR-RC BFL VARN R | | | | | | | | | 0.50 | |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | 1.48 | |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | 0.94 | |
| MAXIMUM | 2.33 | 2.07 | 2.16 | 1.99 | 1.71 | 1.79 | 2.13 | 1.92 | 1.48 | |
| MINIMUM | 0.49 | 0.79 | 1.43 | 1.53 | 1.57 | 1.15 | 1.25 | 1.78 | 0.50 | |
| RANGE(MAX-MIN) | 1.840 | 1.280 | 0.730 | 0.460 | 0.140 | 0.640 | 0.880 | 0.140 | 0.980 | |
| MEAN | 1.362 | 1.504 | 1.854 | 1.730 | 1.657 | 1.473 | 1.617 | 1.833 | 0.913 | |
| STANDARD DEVIATION | 0.752 | 0.460 | 0.342 | 0.174 | 0.076 | 0.320 | 0.458 | 0.076 | 0.419 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= May, Marianne

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| E1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| F1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| G1-4-CAL. SEQ. V PISTONS | 0.56 | 0.42 | 0.45 | 0.17 | | | | | | |
| H1-4-CAL. SEQ. V PISTONS | 0.34 | 0.63 | 0.87 | 0.89 | | | | | | |
| P1-8-SEQ. V PISTONS | | | | | | | | | | |
| Q1-8-SEQ. V PISTONS | | | | | | | | | | |
| R1-8-SEQ. V PISTONS | 0.44 | 0.55 | 0.50 | 0.33 | -0.08 | -0.85 | -0.32 | -0.49 | | |
| S1-8-SEQ. V PISTONS | 0.94 | -0.31 | 0.53 | 0.34 | 0.63 | 0.72 | 0.65 | 0.59 | | |
| VRCBVL-RC BFL VARN L | | | | | | | | | | 0.23 |
| VRCBVR-RC BFL VARN R | | | | | | | | | | -0.19 |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | | -0.32 |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | | 0.05 |
| MAXIMUM | 0.94 | 0.63 | 0.87 | 0.89 | 0.63 | -0.85 | 0.65 | 0.59 | -0.32 | |
| MINIMUM | 0.34 | -0.31 | 0.45 | 0.17 | -0.08 | 0.72 | -0.32 | -0.49 | 0.05 | |
| RANGE(MAX-MIN) | 0.600 | 0.940 | 0.420 | 0.720 | 0.710 | -1.570 | 0.970 | 1.080 | -0.370 | |
| MEAN | 0.570 | 0.323 | 0.588 | 0.433 | 0.275 | -0.065 | 0.165 | 0.050 | -0.058 | |
| STANDARD DEVIATION | 0.263 | 0.430 | 0.191 | 0.315 | 0.502 | 1.110 | 0.686 | 0.764 | 0.245 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Millward, Glen

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| E1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| F1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| G1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| H1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| P1-8-SEQ. V PISTONS | | | | | | | | | |
| Q1-8-SEQ. V PISTONS | | | | | | | | | |
| R1-8-SEQ. V PISTONS | | | | | | | | | |
| S1-8-SEQ. V PISTONS | | | | | | | | | |
| VRCBVL-RC BFL VARN L | | | | | | | | | 0.11 |
| VRCBVR-RC BFL VARN R | | | | | | | | | 0.50 |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | -0.05 |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | -2.74 |
| MAXIMUM | | | | | | | | | -2.74 |
| MINIMUM | | | | | | | | | -0.05 |
| RANGE(MAX-MIN) | | | | | | | | | -2.690 |
| MEAN | | | | | | | | | -0.545 |
| STANDARD DEVIATION | | | | | | | | | 1.481 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Potocar, William P

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| E1-4-CAL. SEQ. V PISTONS | -1.28 | -2.33 | -1.72 | -1.80 | | | | | | |
| F1-4-CAL. SEQ. V PISTONS | -1.13 | -1.15 | -1.80 | -0.12 | | | | | | |
| G1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| H1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| P1-8-SEQ. V PISTONS | -0.74 | -0.34 | -0.65 | -0.74 | -0.75 | -0.78 | -0.70 | -0.87 | | |
| Q1-8-SEQ. V PISTONS | -0.75 | 0.07 | -0.39 | -0.68 | -1.49 | -0.47 | 0.07 | -1.10 | | |
| R1-8-SEQ. V PISTONS | | | | | | | | | | |
| S1-8-SEQ. V PISTONS | | | | | | | | | | |
| VRCBVL-RC BFL VARN L | | | | | | | | | 0.48 | |
| VRCBVR-RC BFL VARN R | | | | | | | | | 1.30 | |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | -0.14 | |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | 0.00 | |
| MAXIMUM | -1.28 | -2.33 | -1.80 | -1.80 | -1.49 | -0.78 | -0.70 | -1.10 | 1.30 | |
| MINIMUM | -0.74 | 0.07 | -0.39 | -0.12 | -0.75 | -0.47 | 0.07 | -0.87 | 0.00 | |
| RANGE(MAX-MIN) | -0.540 | -2.400 | -1.410 | -1.680 | -0.740 | -0.310 | -0.770 | -0.230 | 1.300 | |
| MEAN | -0.975 | -0.938 | -1.140 | -0.835 | -1.120 | -0.625 | -0.315 | -0.985 | 0.410 | |
| STANDARD DEVIATION | 0.273 | 1.058 | 0.724 | 0.701 | 0.523 | 0.219 | 0.544 | 0.163 | 0.650 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Rodriguez, Jesus (Jesse)

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| E1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| F1-4-CAL. SEQ. V PISTONS | -1.13 | -0.37 | -1.00 | -1.46 | | | | | | |
| G1-4-CAL. SEQ. V PISTONS | 0.34 | 0.68 | -2.28 | -2.57 | | | | | | |
| H1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| P1-8-SEQ. V PISTONS | | | | | | | | | | |
| Q1-8-SEQ. V PISTONS | -0.65 | 0.95 | -0.07 | 0.59 | 0.32 | -0.31 | -0.30 | -0.32 | | |
| R1-8-SEQ. V PISTONS | -0.65 | -1.30 | -0.94 | -0.80 | 0.27 | -0.07 | -0.83 | -0.49 | | |
| S1-8-SEQ. V PISTONS | | | | | | | | | | |
| VRCBVL-RC BFL VARN L | | | | | | | | | 0.48 | |
| VRCBVR-RC BFL VARN R | | | | | | | | | 1.79 | |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | 1.21 | |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | 0.84 | |
| MAXIMUM | -1.13 | -1.30 | -2.28 | -2.57 | 0.32 | -0.31 | -0.83 | -0.49 | 1.79 | |
| MINIMUM | 0.34 | -0.37 | -0.07 | 0.59 | 0.27 | -0.07 | -0.30 | -0.32 | 0.48 | |
| RANGE(MAX-MIN) | -1.470 | -0.930 | -2.210 | -3.160 | 0.050 | -0.240 | -0.530 | -0.170 | 1.310 | |
| MEAN | -0.523 | -0.010 | -1.073 | -1.060 | 0.295 | -0.190 | -0.565 | -0.405 | 1.080 | |
| STANDARD DEVIATION | 0.618 | 1.031 | 0.910 | 1.320 | 0.035 | 0.170 | 0.375 | 0.120 | 0.559 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Sanchez, Arthur

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| E1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| F1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| G1-4-CAL. SEQ. V PISTONS | 1.26 | 1.69 | 1.00 | 0.23 | | | | | |
| H1-4-CAL. SEQ. V PISTONS | 0.80 | 0.40 | 1.02 | 1.24 | | | | | |
| P1-8-SEQ. V PISTONS | | | | | | | | | |
| Q1-8-SEQ. V PISTONS | | | | | | | | | |
| R1-8-SEQ. V PISTONS | 0.19 | 0.28 | 0.47 | 0.61 | 0.87 | 0.66 | 0.41 | 0.63 | |
| S1-8-SEQ. V PISTONS | 0.54 | 0.41 | -0.63 | 0.81 | 0.77 | 0.81 | 0.05 | 0.45 | |
| VRCBVL-RC BFL VARN L | | | | | | | | | 0.85 |
| VRCBVR-RC BFL VARN R | | | | | | | | | -0.69 |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | -1.67 |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | 0.05 |
| MAXIMUM | 1.26 | 1.69 | 1.02 | 1.24 | 0.87 | 0.81 | 0.41 | 0.63 | -1.67 |
| MINIMUM | 0.19 | 0.28 | 0.47 | 0.23 | 0.77 | 0.66 | 0.05 | 0.45 | 0.05 |
| RANGE(MAX-MIN) | 1.070 | 1.410 | 0.550 | 1.010 | 0.100 | 0.150 | 0.360 | 0.180 | -1.720 |
| MEAN | 0.698 | 0.695 | 0.465 | 0.723 | 0.820 | 0.735 | 0.230 | 0.540 | -0.365 |
| STANDARD DEVIATION | 0.451 | 0.666 | 0.773 | 0.421 | 0.071 | 0.106 | 0.255 | 0.127 | 1.073 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Seiz, Ray

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| E1-4-CAL. SEQ. V PISTONS | 1.47 | 0.20 | 1.60 | 1.73 | | | | | | |
| F1-4-CAL. SEQ. V PISTONS | 1.48 | 0.98 | 0.38 | 1.53 | | | | | | |
| G1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| H1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| P1-8-SEQ. V PISTONS | 0.92 | 0.93 | 0.88 | 0.55 | 1.05 | 1.54 | 0.88 | 1.39 | | |
| Q1-8-SEQ. V PISTONS | 0.92 | 1.06 | 1.07 | 1.16 | 0.90 | 0.75 | 1.11 | 1.44 | | |
| R1-8-SEQ. V PISTONS | | | | | | | | | | |
| S1-8-SEQ. V PISTONS | 1.61 | 1.41 | 1.39 | 0.01 | 0.94 | 1.22 | 0.62 | 0.62 | | |
| VRCBVL-RC BFL VARN L | | | | | | | | | -2.24 | |
| VRCBVR-RC BFL VARN R | | | | | | | | | -2.97 | |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | 0.40 | |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | -0.06 | |
| MAXIMUM | 1.61 | 1.41 | 1.60 | 1.73 | 1.05 | 1.54 | 1.11 | 1.44 | -2.97 | |
| MINIMUM | 0.92 | 0.20 | 0.38 | 0.01 | 0.90 | 0.75 | 0.62 | 0.62 | -0.06 | |
| RANGE(MAX-MIN) | 0.690 | 1.210 | 1.220 | 1.720 | 0.150 | 0.790 | 0.490 | 0.820 | -2.910 | |
| MEAN | 1.280 | 0.916 | 1.064 | 0.996 | 0.963 | 1.170 | 0.870 | 1.150 | -1.218 | |
| STANDARD DEVIATION | 0.333 | 0.442 | 0.473 | 0.711 | 0.078 | 0.397 | 0.245 | 0.460 | 1.640 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Swanson, Dennis

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| E1-4-CAL. SEQ. V PISTONS | -0.09 | 0.39 | 0.08 | -0.18 | | | | | |
| F1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| G1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| H1-4-CAL. SEQ. V PISTONS | -2.03 | -2.21 | -1.49 | -2.01 | | | | | |
| P1-8-SEQ. V PISTONS | -0.49 | -0.98 | 0.33 | 0.22 | -0.44 | -0.78 | 0.15 | -0.14 | |
| Q1-8-SEQ. V PISTONS | | | | | | | | | |
| R1-8-SEQ. V PISTONS | | | | | | | | | |
| S1-8-SEQ. V PISTONS | -1.23 | -0.79 | -0.89 | -0.81 | -1.67 | -1.69 | -1.06 | -1.24 | |
| VRCBVL-RC BFL VARN L | | | | | | | | | |
| VRCBVR-RC BFL VARN R | | | | | | | | | |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | |
| MAXIMUM | -2.03 | -2.21 | -1.49 | -2.01 | -1.67 | -1.69 | -1.06 | -1.24 | |
| MINIMUM | -0.09 | 0.39 | 0.08 | -0.18 | -0.44 | -0.78 | 0.15 | -0.14 | |
| RANGE(MAX-MIN) | -1.940 | -2.600 | -1.570 | -1.830 | -1.230 | -0.910 | -1.210 | -1.100 | |
| MEAN | -0.960 | -0.898 | -0.493 | -0.695 | -1.055 | -1.235 | -0.455 | -0.690 | |
| STANDARD DEVIATION | 0.855 | 1.064 | 0.848 | 0.974 | 0.870 | 0.643 | 0.856 | 0.778 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Terrado, Ken

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| E1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| F1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| G1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| H1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| P1-8-SEQ. V PISTONS | | | | | | | | | | |
| Q1-8-SEQ. V PISTONS | | | | | | | | | | |
| R1-8-SEQ. V PISTONS | | | | | | | | | | |
| S1-8-SEQ. V PISTONS | | | | | | | | | | |
| VRCBVL-RC BFL VARN L | | | | | | | | | 0.61 | |
| VRCBVR-RC BFL VARN R | | | | | | | | | | |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | 0.13 | |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | 0.05 | |
| MAXIMUM | | | | | | | | | 0.61 | |
| MINIMUM | | | | | | | | | 0.05 | |
| RANGE(MAX-MIN) | | | | | | | | | 0.560 | |
| MEAN | | | | | | | | | 0.263 | |
| STANDARD DEVIATION | | | | | | | | | 0.303 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Trevino, Bobby

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| E1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| F1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| G1-4-CAL. SEQ. V PISTONS | -0.07 | 0.27 | 0.63 | 0.73 | | | | | | |
| H1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| P1-8-SEQ. V PISTONS | -1.46 | -1.16 | -0.91 | -0.72 | -0.95 | -0.75 | -0.70 | -0.72 | | |
| Q1-8-SEQ. V PISTONS | -0.33 | -0.82 | -0.31 | -0.74 | -0.73 | -0.80 | -0.45 | -0.74 | | |
| R1-8-SEQ. V PISTONS | | | | | | | | | | |
| S1-8-SEQ. V PISTONS | -0.26 | -0.64 | -0.92 | -0.57 | -0.81 | -0.46 | -0.68 | -0.62 | | |
| VRCBVL-RC BFL VARN L | | | | | | | | | 0.11 | |
| VRCBVR-RC BFL VARN R | | | | | | | | | -0.19 | |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | 0.13 | |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | 0.05 | |
| MAXIMUM | -1.46 | -1.16 | -0.92 | -0.74 | -0.95 | -0.80 | -0.70 | -0.74 | -0.19 | |
| MINIMUM | -0.07 | 0.27 | -0.31 | -0.57 | -0.73 | -0.46 | -0.45 | -0.62 | 0.05 | |
| RANGE(MAX-MIN) | -1.390 | -1.430 | -0.610 | -0.170 | -0.220 | -0.340 | -0.250 | -0.120 | -0.240 | |
| MEAN | -0.530 | -0.588 | -0.378 | -0.325 | -0.830 | -0.670 | -0.610 | -0.693 | 0.025 | |
| STANDARD DEVIATION | 0.630 | 0.611 | 0.730 | 0.707 | 0.111 | 0.184 | 0.139 | 0.064 | 0.147 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Veiga, Victor

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG | |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| E1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| F1-4-CAL. SEQ. V PISTONS | 0.42 | 0.02 | -1.24 | -1.65 | | | | | | |
| G1-4-CAL. SEQ. V PISTONS | -1.63 | -3.13 | -0.31 | -0.60 | | | | | | |
| H1-4-CAL. SEQ. V PISTONS | | | | | | | | | | |
| P1-8-SEQ. V PISTONS | 1.60 | 1.19 | 1.22 | 1.54 | 1.76 | 1.81 | 1.61 | 1.05 | | |
| Q1-8-SEQ. V PISTONS | 0.40 | -0.38 | 1.15 | 1.35 | 0.52 | 0.67 | 1.62 | 1.37 | | |
| R1-8-SEQ. V PISTONS | 0.56 | 0.95 | -0.35 | 1.03 | 0.57 | 1.53 | 0.59 | 0.71 | | |
| S1-8-SEQ. V PISTONS | 0.88 | 1.95 | 1.43 | 1.70 | 1.43 | 1.35 | 2.01 | 1.65 | | |
| VRCBVL-RC BFL VARN L | | | | | | | | | | -0.39 |
| VRCBVR-RC BFL VARN R | | | | | | | | | | -1.48 |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | | -0.68 |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | | -0.06 |
| MAXIMUM | -1.63 | -3.13 | 1.43 | 1.70 | 1.76 | 1.81 | 2.01 | 1.65 | | -1.48 |
| MINIMUM | 0.40 | 0.02 | -0.31 | -0.60 | 0.52 | 0.67 | 0.59 | 0.71 | | -0.06 |
| RANGE(MAX-MIN) | -2.030 | -3.150 | 1.740 | 2.300 | 1.240 | 1.140 | 1.420 | 0.940 | | -1.420 |
| MEAN | 0.372 | 0.100 | 0.317 | 0.562 | 1.070 | 1.340 | 1.458 | 1.195 | | -0.653 |
| STANDARD DEVIATION | 1.078 | 1.789 | 1.096 | 1.366 | 0.621 | 0.485 | 0.608 | 0.406 | | 0.607 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Viera, Ralph B.

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| E1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| F1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| G1-4-CAL. SEQ. V PISTONS | -1.13 | -0.36 | -0.42 | -0.73 | | | | | |
| H1-4-CAL. SEQ. V PISTONS | -0.57 | -0.43 | -1.77 | 0.13 | | | | | |
| P1-8-SEQ. V PISTONS | | | | | | | | | |
| Q1-8-SEQ. V PISTONS | | | | | | | | | |
| R1-8-SEQ. V PISTONS | 0.14 | -0.59 | -0.79 | -1.36 | 0.49 | -0.91 | -0.95 | 0.12 | |
| S1-8-SEQ. V PISTONS | -1.29 | -0.28 | -0.98 | -1.51 | 0.44 | -0.84 | -0.87 | -0.72 | |
| VRCBVL-RC BFL VARN L | | | | | | | | | 0.48 |
| VRCBVR-RC BFL VARN R | | | | | | | | | -0.29 |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | -1.22 |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | -0.27 |
| MAXIMUM | -1.29 | -0.59 | -1.77 | -1.51 | 0.49 | -0.91 | -0.95 | -0.72 | -1.22 |
| MINIMUM | 0.14 | -0.28 | -0.42 | 0.13 | 0.44 | -0.84 | -0.87 | 0.12 | -0.27 |
| RANGE(MAX-MIN) | -1.430 | -0.310 | -1.350 | -1.640 | 0.050 | -0.070 | -0.080 | -0.840 | -0.950 |
| MEAN | -0.713 | -0.415 | -0.990 | -0.868 | 0.465 | -0.875 | -0.910 | -0.300 | -0.325 |
| STANDARD DEVIATION | 0.647 | 0.132 | 0.570 | 0.746 | 0.035 | 0.049 | 0.057 | 0.594 | 0.696 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Zalewski, John

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | AVERAG |
|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| E1-4-CAL. SEQ. V PISTONS | -2.48 | -0.50 | -1.47 | -0.79 | | | | | |
| F1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| G1-4-CAL. SEQ. V PISTONS | | | | | | | | | |
| H1-4-CAL. SEQ. V PISTONS | 0.19 | 0.81 | 0.31 | 0.55 | | | | | |
| P1-8-SEQ. V PISTONS | 0.53 | 0.70 | 0.64 | 0.49 | 0.30 | -0.05 | 0.66 | 0.72 | |
| Q1-8-SEQ. V PISTONS | | | | | | | | | |
| R1-8-SEQ. V PISTONS | | | | | | | | | |
| S1-8-SEQ. V PISTONS | 1.24 | 0.90 | 1.59 | 1.37 | 1.02 | 1.13 | 1.17 | 1.55 | |
| VRCBVL-RC BFL VARN L | | | | | | | | | -0.63 |
| VRCBVR-RC BFL VARN R | | | | | | | | | -0.19 |
| VVCALL-CAL RC BFL VARN L | | | | | | | | | 0.13 |
| VVCALR-CAL RC BFL VARN R | | | | | | | | | 0.05 |
| MAXIMUM | -2.48 | 0.90 | 1.59 | 1.37 | 1.02 | 1.13 | 1.17 | 1.55 | -0.63 |
| MINIMUM | 0.19 | -0.50 | 0.31 | 0.49 | 0.30 | -0.05 | 0.66 | 0.72 | 0.05 |
| RANGE(MAX-MIN) | -2.670 | 1.400 | 1.280 | 0.880 | 0.720 | 1.180 | 0.510 | 0.830 | -0.680 |
| MEAN | -0.130 | 0.478 | 0.268 | 0.405 | 0.660 | 0.540 | 0.915 | 1.135 | -0.160 |
| STANDARD DEVIATION | 1.627 | 0.657 | 1.279 | 0.892 | 0.509 | 0.834 | 0.361 | 0.587 | 0.342 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Adams, Patrick

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 | |
|---------------------------|--------|--------|-------|-------|--------|--------|--------|-------|--|
| I1-8-INTAKE VALVE SET | -1.28 | -1.38 | 1.87 | 1.85 | 0.05 | -2.25 | -2.50 | 1.19 | |
| J1-8-INTAKE VALVE SET | -2.55 | 0.73 | 0.63 | 1.81 | 1.27 | -2.14 | -0.18 | 1.15 | |
| K1-8-INTAKE VALVE SET | -3.16 | -1.06 | 1.04 | 1.96 | -1.29 | -1.69 | -0.49 | 1.29 | |
| VALCAL-CAL. INTAKE VALVES | -1.12 | 1.05 | | | | | | | |
| MAXIMUM | -3.16 | -1.38 | 1.87 | 1.96 | -1.29 | -2.25 | -2.50 | 1.29 | |
| MINIMUM | -1.12 | 0.73 | 0.63 | 1.81 | 0.05 | -1.69 | -0.18 | 1.15 | |
| RANGE(MAX-MIN) | -2.040 | -2.110 | 1.240 | 0.150 | -1.340 | -0.560 | -2.320 | 0.140 | |
| MEAN | -2.028 | -0.165 | 1.180 | 1.873 | 0.010 | -2.027 | -1.057 | 1.210 | |
| STANDARD DEVIATION | 0.990 | 1.232 | 0.632 | 0.078 | 1.280 | 0.297 | 1.260 | 0.072 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Aguirre, Nancy P

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|---------------------------|----|----|----|----|----|----|----|----|
| I1-8-INTAKE VALVE SET | | | | | | | | |
| J1-8-INTAKE VALVE SET | | | | | | | | |
| K1-8-INTAKE VALVE SET | | | | | | | | |
| VALCAL-CAL. INTAKE VALVES | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | |
| MEAN | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Avis, Steven

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|---------------------------|--------|--------|----|----|----|----|----|----|
| I1-8-INTAKE VALVE SET | | | | | | | | |
| J1-8-INTAKE VALVE SET | | | | | | | | |
| K1-8-INTAKE VALVE SET | | | | | | | | |
| VALCAL-CAL. INTAKE VALVES | -1.41 | -1.70 | | | | | | |
| MAXIMUM | -1.41 | -1.70 | | | | | | |
| MINIMUM | -1.41 | -1.70 | | | | | | |
| RANGE(MAX-MIN) | 0.000 | 0.000 | | | | | | |
| MEAN | -1.410 | -1.700 | | | | | | |
| STANDARD DEVIATION | 0.000 | 0.000 | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Barrera, Tony

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 | |
|---------------------------|--------|--------|--------|--------|-------|--------|--------|-------|--|
| I1-8-INTAKE VALVE SET | -0.84 | -1.86 | -0.17 | -0.91 | 1.34 | -1.03 | -1.34 | 0.53 | |
| J1-8-INTAKE VALVE SET | -1.49 | 0.41 | -0.03 | 0.00 | 0.23 | -1.19 | -1.38 | 1.15 | |
| K1-8-INTAKE VALVE SET | | | | | | | | | |
| VALCAL-CAL. INTAKE VALVES | 0.64 | 0.27 | | | | | | | |
| MAXIMUM | -1.49 | -1.86 | -0.17 | -0.91 | 1.34 | -1.19 | -1.38 | 1.15 | |
| MINIMUM | 0.64 | 0.27 | -0.03 | 0.00 | 0.23 | -1.03 | -1.34 | 0.53 | |
| RANGE(MAX-MIN) | -2.130 | -2.130 | -0.140 | -0.910 | 1.110 | -0.160 | -0.040 | 0.620 | |
| MEAN | -0.563 | -0.393 | -0.100 | -0.455 | 0.785 | -1.110 | -1.360 | 0.840 | |
| STANDARD DEVIATION | 1.092 | 1.272 | 0.099 | 0.643 | 0.785 | 0.113 | 0.028 | 0.438 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Cales, Jonathon

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|---------------------------|----|----|----|----|----|----|----|----|
| I1-8-INTAKE VALVE SET | | | | | | | | |
| J1-8-INTAKE VALVE SET | | | | | | | | |
| K1-8-INTAKE VALVE SET | | | | | | | | |
| VALCAL-CAL. INTAKE VALVES | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | |
| MEAN | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Campbell, Bryan

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 | |
|---------------------------|--------|-------|-------|--------|-------|-------|-------|--------|--|
| I1-8-INTAKE VALVE SET | 0.47 | 0.54 | 0.34 | 0.55 | 0.05 | 0.81 | 0.69 | 0.37 | |
| J1-8-INTAKE VALVE SET | 0.62 | 1.70 | 0.63 | -0.91 | 1.27 | 1.03 | 1.82 | -1.51 | |
| K1-8-INTAKE VALVE SET | 0.48 | 1.67 | 0.73 | 0.54 | 0.43 | 1.47 | 1.68 | 0.87 | |
| VALCAL-CAL. INTAKE VALVES | -2.58 | -1.70 | | | | | | | |
| MAXIMUM | -2.58 | 1.70 | 0.73 | -0.91 | 1.27 | 1.47 | 1.82 | -1.51 | |
| MINIMUM | 0.47 | 0.54 | 0.34 | 0.54 | 0.05 | 0.81 | 0.69 | 0.37 | |
| RANGE(MAX-MIN) | -3.050 | 1.160 | 0.390 | -1.450 | 1.220 | 0.660 | 1.130 | -1.880 | |
| MEAN | -0.253 | 0.553 | 0.567 | 0.060 | 0.583 | 1.103 | 1.397 | -0.090 | |
| STANDARD DEVIATION | 1.553 | 1.596 | 0.203 | 0.840 | 0.624 | 0.336 | 0.616 | 1.255 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Caproni, David

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|---------------------------|----|----|----|----|----|----|----|----|
| I1-8-INTAKE VALVE SET | | | | | | | | |
| J1-8-INTAKE VALVE SET | | | | | | | | |
| K1-8-INTAKE VALVE SET | | | | | | | | |
| VALCAL-CAL. INTAKE VALVES | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | |
| MEAN | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Castillo, George

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 | |
|---------------------------|--------|-------|--------|--------|-------|-------|-------|--------|--|
| I1-8-INTAKE VALVE SET | -0.84 | 0.06 | -1.19 | -1.24 | 0.05 | 0.20 | 0.11 | -1.77 | |
| J1-8-INTAKE VALVE SET | 0.09 | 0.73 | -0.70 | -1.82 | -0.12 | 0.40 | 0.22 | -0.79 | |
| K1-8-INTAKE VALVE SET | 0.22 | 0.15 | -0.52 | -2.31 | 0.43 | 0.84 | 0.23 | -2.21 | |
| VALCAL-CAL. INTAKE VALVES | 0.64 | -0.13 | | | | | | | |
| MAXIMUM | -0.84 | 0.73 | -1.19 | -2.31 | 0.43 | 0.84 | 0.23 | -2.21 | |
| MINIMUM | 0.09 | 0.06 | -0.52 | -1.24 | 0.05 | 0.20 | 0.11 | -0.79 | |
| RANGE(MAX-MIN) | -0.930 | 0.670 | -0.670 | -1.070 | 0.380 | 0.640 | 0.120 | -1.420 | |
| MEAN | 0.028 | 0.203 | -0.803 | -1.790 | 0.120 | 0.480 | 0.187 | -1.590 | |
| STANDARD DEVIATION | 0.624 | 0.371 | 0.347 | 0.536 | 0.282 | 0.327 | 0.067 | 0.727 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Cumberworth, Lee

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|---------------------------|-------|--------|--------|-------|--------|--------|--------|--------|
| I1-8-INTAKE VALVE SET | | | | | | | | |
| J1-8-INTAKE VALVE SET | -0.02 | -0.63 | -1.03 | 0.52 | -0.82 | -1.12 | -0.46 | -0.69 |
| K1-8-INTAKE VALVE SET | | | | | | | | |
| VALCAL-CAL. INTAKE VALVES | 0.64 | -1.31 | | | | | | |
| MAXIMUM | 0.64 | -1.31 | -1.03 | 0.52 | -0.82 | -1.12 | -0.46 | -0.69 |
| MINIMUM | -0.02 | -0.63 | -1.03 | 0.52 | -0.82 | -1.12 | -0.46 | -0.69 |
| RANGE(MAX-MIN) | 0.660 | -0.680 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| MEAN | 0.310 | -0.970 | -1.030 | 0.520 | -0.820 | -1.120 | -0.460 | -0.690 |
| STANDARD DEVIATION | 0.467 | 0.481 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Foecking, Brian

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|---------------------------|-------|-------|--------|--------|--------|-------|-------|--------|
| I1-8-INTAKE VALVE SET | 0.91 | 1.02 | -1.44 | -0.91 | -1.24 | 0.51 | 0.69 | -0.78 |
| J1-8-INTAKE VALVE SET | 0.62 | -0.24 | 0.63 | -0.46 | -0.47 | 1.03 | 0.62 | 0.18 |
| K1-8-INTAKE VALVE SET | -0.04 | 0.76 | -0.83 | -0.48 | 0.43 | 1.09 | 0.96 | 0.46 |
| VALCAL-CAL. INTAKE VALVES | 0.93 | 0.66 | | | | | | |
| MAXIMUM | 0.93 | 1.02 | -1.44 | -0.91 | -1.24 | 1.09 | 0.96 | -0.78 |
| MINIMUM | -0.04 | -0.24 | 0.63 | -0.46 | 0.43 | 0.51 | 0.62 | 0.18 |
| RANGE(MAX-MIN) | 0.970 | 1.260 | -2.070 | -0.450 | -1.670 | 0.580 | 0.340 | -0.960 |
| MEAN | 0.605 | 0.550 | -0.547 | -0.617 | -0.427 | 0.877 | 0.757 | -0.047 |
| STANDARD DEVIATION | 0.453 | 0.548 | 1.064 | 0.254 | 0.836 | 0.319 | 0.180 | 0.650 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Greenland, Paul

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|---------------------------|----|----|----|----|----|----|----|----|
| I1-8-INTAKE VALVE SET | | | | | | | | |
| J1-8-INTAKE VALVE SET | | | | | | | | |
| K1-8-INTAKE VALVE SET | | | | | | | | |
| VALCAL-CAL. INTAKE VALVES | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | |
| MEAN | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Grundza, Richard

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|---------------------------|----|----|----|----|----|----|----|----|
| I1-8-INTAKE VALVE SET | | | | | | | | |
| J1-8-INTAKE VALVE SET | | | | | | | | |
| K1-8-INTAKE VALVE SET | | | | | | | | |
| VALCAL-CAL. INTAKE VALVES | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | |
| MEAN | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Hills, Barry

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|---------------------------|----|----|----|----|----|----|----|----|
| I1-8-INTAKE VALVE SET | | | | | | | | |
| J1-8-INTAKE VALVE SET | | | | | | | | |
| K1-8-INTAKE VALVE SET | | | | | | | | |
| VALCAL-CAL. INTAKE VALVES | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | |
| MEAN | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Hurst, Kevin R.

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|---------------------------|----|----|----|----|----|----|----|----|
| I1-8-INTAKE VALVE SET | | | | | | | | |
| J1-8-INTAKE VALVE SET | | | | | | | | |
| K1-8-INTAKE VALVE SET | | | | | | | | |
| VALCAL-CAL. INTAKE VALVES | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | |
| MEAN | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Kobrinetz, Joaquin J.

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|---------------------------|-------|--------|--------|--------|--------|--------|--------|--------|
| I1-8-INTAKE VALVE SET | | | | | | | | |
| J1-8-INTAKE VALVE SET | 0.62 | -1.85 | -2.02 | -0.37 | -1.13 | -1.12 | -1.02 | -1.32 |
| K1-8-INTAKE VALVE SET | 1.00 | -0.45 | -1.46 | -0.28 | -0.43 | -0.93 | -1.22 | -0.57 |
| VALCAL-CAL. INTAKE VALVES | 0.64 | -0.13 | | | | | | |
| MAXIMUM | 1.00 | -1.85 | -2.02 | -0.37 | -1.13 | -1.12 | -1.22 | -1.32 |
| MINIMUM | 0.62 | -0.13 | -1.46 | -0.28 | -0.43 | -0.93 | -1.02 | -0.57 |
| RANGE(MAX-MIN) | 0.380 | -1.720 | -0.560 | -0.090 | -0.700 | -0.190 | -0.200 | -0.750 |
| MEAN | 0.753 | -0.810 | -1.740 | -0.325 | -0.780 | -1.025 | -1.120 | -0.945 |
| STANDARD DEVIATION | 0.214 | 0.915 | 0.396 | 0.064 | 0.495 | 0.134 | 0.141 | 0.530 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Kraemer, Vernon

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|---------------------------|----|----|----|----|----|----|----|----|
| I1-8-INTAKE VALVE SET | | | | | | | | |
| J1-8-INTAKE VALVE SET | | | | | | | | |
| K1-8-INTAKE VALVE SET | | | | | | | | |
| VALCAL-CAL. INTAKE VALVES | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | |
| MEAN | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Lonsway, Chris

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|---------------------------|-------|--------|----|----|----|----|----|----|
| I1-8-INTAKE VALVE SET | | | | | | | | |
| J1-8-INTAKE VALVE SET | | | | | | | | |
| K1-8-INTAKE VALVE SET | | | | | | | | |
| VALCAL-CAL. INTAKE VALVES | 0.64 | -0.13 | | | | | | |
| MAXIMUM | 0.64 | -0.13 | | | | | | |
| MINIMUM | 0.64 | -0.13 | | | | | | |
| RANGE(MAX-MIN) | 0.000 | 0.000 | | | | | | |
| MEAN | 0.640 | -0.130 | | | | | | |
| STANDARD DEVIATION | 0.000 | 0.000 | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Lopez, Frank

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 | |
|---------------------------|-------|--------|--------|--------|--------|-------|--------|-------|--|
| I1-8-INTAKE VALVE SET | 0.47 | 0.54 | -0.93 | -0.59 | -1.24 | 0.51 | 0.69 | 0.53 | |
| J1-8-INTAKE VALVE SET | 0.09 | -1.21 | -0.03 | 0.22 | 0.57 | 0.72 | -1.38 | 0.66 | |
| K1-8-INTAKE VALVE SET | 0.48 | 0.76 | 0.42 | 0.33 | 0.43 | 0.59 | 0.96 | 0.46 | |
| VALCAL-CAL. INTAKE VALVES | 0.34 | 0.66 | | | | | | | |
| MAXIMUM | 0.48 | -1.21 | -0.93 | -0.59 | -1.24 | 0.72 | -1.38 | 0.66 | |
| MINIMUM | 0.09 | 0.54 | -0.03 | 0.22 | 0.43 | 0.51 | 0.69 | 0.46 | |
| RANGE(MAX-MIN) | 0.390 | -1.750 | -0.900 | -0.810 | -1.670 | 0.210 | -2.070 | 0.200 | |
| MEAN | 0.345 | 0.188 | -0.180 | -0.013 | -0.080 | 0.607 | 0.090 | 0.550 | |
| STANDARD DEVIATION | 0.182 | 0.936 | 0.687 | 0.502 | 1.007 | 0.106 | 1.280 | 0.101 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Lowry, Shannon

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|---------------------------|----|----|----|----|----|----|----|----|
| I1-8-INTAKE VALVE SET | | | | | | | | |
| J1-8-INTAKE VALVE SET | | | | | | | | |
| K1-8-INTAKE VALVE SET | | | | | | | | |
| VALCAL-CAL. INTAKE VALVES | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | |
| MEAN | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Lowsky, John

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 | |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| I1-8-INTAKE VALVE SET | 0.91 | 0.30 | 0.98 | -0.10 | 0.69 | 0.35 | 0.40 | 0.69 | |
| J1-8-INTAKE VALVE SET | 0.88 | -0.24 | 2.16 | 1.02 | 1.79 | 0.87 | 1.82 | 1.87 | |
| K1-8-INTAKE VALVE SET | 0.48 | -0.45 | 1.14 | 0.33 | 0.43 | 0.33 | -0.13 | 0.57 | |
| VALCAL-CAL. INTAKE VALVES | 0.34 | 1.64 | | | | | | | |
| MAXIMUM | 0.91 | 1.64 | 2.16 | 1.02 | 1.79 | 0.87 | 1.82 | 1.87 | |
| MINIMUM | 0.34 | -0.24 | 0.98 | -0.10 | 0.43 | 0.33 | -0.13 | 0.57 | |
| RANGE(MAX-MIN) | 0.570 | 1.880 | 1.180 | 1.120 | 1.360 | 0.540 | 1.950 | 1.300 | |
| MEAN | 0.653 | 0.313 | 1.427 | 0.417 | 0.970 | 0.517 | 0.697 | 1.043 | |
| STANDARD DEVIATION | 0.286 | 0.940 | 0.640 | 0.565 | 0.722 | 0.306 | 1.008 | 0.718 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= May, Marianne

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|---------------------------|-------|--------|--------|--------|--------|--------|--------|--------|
| I1-8-INTAKE VALVE SET | | | | | | | | |
| J1-8-INTAKE VALVE SET | 0.62 | -0.56 | -0.70 | -0.68 | -0.82 | -0.55 | -0.58 | -0.79 |
| K1-8-INTAKE VALVE SET | 0.48 | -1.06 | -1.46 | -0.48 | -1.29 | -1.44 | -1.94 | -0.57 |
| VALCAL-CAL. INTAKE VALVES | 0.05 | 0.66 | | | | | | |
| MAXIMUM | 0.62 | -1.06 | -1.46 | -0.68 | -1.29 | -1.44 | -1.94 | -0.79 |
| MINIMUM | 0.05 | -0.56 | -0.70 | -0.48 | -0.82 | -0.55 | -0.58 | -0.57 |
| RANGE(MAX-MIN) | 0.570 | -0.500 | -0.760 | -0.200 | -0.470 | -0.890 | -1.360 | -0.220 |
| MEAN | 0.383 | -0.320 | -1.080 | -0.580 | -1.055 | -0.995 | -1.260 | -0.680 |
| STANDARD DEVIATION | 0.297 | 0.885 | 0.537 | 0.141 | 0.332 | 0.629 | 0.962 | 0.156 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Millward, Glen

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 | |
|---------------------------|--------|-------|-------|-------|--------|--------|-------|--------|--|
| I1-8-INTAKE VALVE SET | 0.47 | 0.06 | 0.09 | 0.06 | -1.24 | -0.11 | 0.40 | -0.13 | |
| J1-8-INTAKE VALVE SET | 0.09 | 0.08 | -0.70 | 0.22 | -0.12 | 0.08 | 1.02 | -1.27 | |
| K1-8-INTAKE VALVE SET | 0.48 | 1.36 | 0.73 | -0.07 | -0.43 | 0.08 | 0.96 | 0.05 | |
| VALCAL-CAL. INTAKE VALVES | -1.41 | 0.66 | | | | | | | |
| MAXIMUM | -1.41 | 1.36 | 0.73 | 0.22 | -1.24 | -0.11 | 1.02 | -1.27 | |
| MINIMUM | 0.09 | 0.06 | 0.09 | 0.06 | -0.12 | 0.08 | 0.40 | 0.05 | |
| RANGE(MAX-MIN) | -1.500 | 1.300 | 0.640 | 0.160 | -1.120 | -0.190 | 0.620 | -1.320 | |
| MEAN | -0.093 | 0.540 | 0.040 | 0.070 | -0.597 | 0.017 | 0.793 | -0.450 | |
| STANDARD DEVIATION | 0.897 | 0.613 | 0.716 | 0.145 | 0.578 | 0.110 | 0.342 | 0.716 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Potocar, William P

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|---------------------------|----|----|----|----|----|----|----|----|
| I1-8-INTAKE VALVE SET | | | | | | | | |
| J1-8-INTAKE VALVE SET | | | | | | | | |
| K1-8-INTAKE VALVE SET | | | | | | | | |
| VALCAL-CAL. INTAKE VALVES | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | |
| MEAN | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Rodriguez, Jesus (Jesse)

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|---------------------------|-------|--------|--------|--------|--------|--------|--------|--------|
| I1-8-INTAKE VALVE SET | 0.47 | 0.54 | -0.93 | -0.43 | 0.05 | 0.81 | 0.69 | -1.44 |
| J1-8-INTAKE VALVE SET | 0.09 | -1.53 | -0.03 | -1.14 | -1.51 | -0.24 | -0.98 | 0.18 |
| K1-8-INTAKE VALVE SET | 0.22 | 0.76 | -1.77 | -0.68 | 1.29 | -1.18 | -0.49 | -0.98 |
| VALCAL-CAL. INTAKE VALVES | 0.05 | -1.31 | | | | | | |
| MAXIMUM | 0.47 | -1.53 | -1.77 | -1.14 | -1.51 | -1.18 | -0.98 | -1.44 |
| MINIMUM | 0.05 | 0.54 | -0.03 | -0.43 | 0.05 | -0.24 | -0.49 | 0.18 |
| RANGE(MAX-MIN) | 0.420 | -2.070 | -1.740 | -0.710 | -1.560 | -0.940 | -0.490 | -1.620 |
| MEAN | 0.208 | -0.385 | -0.910 | -0.750 | -0.057 | -0.203 | -0.260 | -0.747 |
| STANDARD DEVIATION | 0.189 | 1.202 | 0.870 | 0.360 | 1.403 | 0.996 | 0.858 | 0.835 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Sanchez, Arthur

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|---------------------------|-------|-------|--------|--------|--------|-------|-------|--------|
| I1-8-INTAKE VALVE SET | 0.91 | 1.50 | -0.68 | -1.24 | -1.24 | 1.12 | 0.69 | -1.11 |
| J1-8-INTAKE VALVE SET | 0.62 | 1.05 | -0.70 | -1.14 | -1.51 | 1.35 | -0.18 | 0.18 |
| K1-8-INTAKE VALVE SET | -0.56 | 0.15 | 0.42 | -0.89 | 0.43 | 1.09 | 0.23 | -1.39 |
| VALCAL-CAL. INTAKE VALVES | 0.34 | -0.13 | | | | | | |
| MAXIMUM | 0.91 | 1.50 | -0.70 | -1.24 | -1.51 | 1.35 | 0.69 | -1.39 |
| MINIMUM | 0.34 | -0.13 | 0.42 | -0.89 | 0.43 | 1.09 | -0.18 | 0.18 |
| RANGE(MAX-MIN) | 0.570 | 1.630 | -1.120 | -0.350 | -1.940 | 0.260 | 0.870 | -1.570 |
| MEAN | 0.328 | 0.643 | -0.320 | -1.090 | -0.773 | 1.187 | 0.247 | -0.773 |
| STANDARD DEVIATION | 0.636 | 0.762 | 0.641 | 0.180 | 1.051 | 0.142 | 0.435 | 0.837 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Seiz, Ray

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 | |
|---------------------------|-------|--------|-------|-------|-------|--------|-------|-------|--|
| I1-8-INTAKE VALVE SET | -0.40 | -0.42 | 0.34 | 0.88 | 0.05 | -0.41 | 0.11 | 0.20 | |
| J1-8-INTAKE VALVE SET | 0.09 | 1.05 | 0.63 | 1.13 | 0.57 | 0.40 | 0.62 | 0.66 | |
| K1-8-INTAKE VALVE SET | 0.22 | -1.06 | 0.42 | 0.95 | 1.29 | 0.08 | 0.23 | 0.67 | |
| VALCAL-CAL. INTAKE VALVES | 0.64 | 1.05 | | | | | | | |
| MAXIMUM | 0.64 | -1.06 | 0.63 | 1.13 | 1.29 | -0.41 | 0.62 | 0.67 | |
| MINIMUM | 0.09 | -0.42 | 0.34 | 0.88 | 0.05 | 0.08 | 0.11 | 0.20 | |
| RANGE(MAX-MIN) | 0.550 | -0.640 | 0.290 | 0.250 | 1.240 | -0.490 | 0.510 | 0.470 | |
| MEAN | 0.138 | 0.155 | 0.463 | 0.987 | 0.637 | 0.023 | 0.320 | 0.510 | |
| STANDARD DEVIATION | 0.428 | 1.066 | 0.150 | 0.129 | 0.623 | 0.408 | 0.267 | 0.269 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Swanson, Dennis

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|---------------------------|----|----|----|----|----|----|----|----|
| I1-8-INTAKE VALVE SET | | | | | | | | |
| J1-8-INTAKE VALVE SET | | | | | | | | |
| K1-8-INTAKE VALVE SET | | | | | | | | |
| VALCAL-CAL. INTAKE VALVES | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | |
| MEAN | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Terrado, Ken

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|---------------------------|----|----|----|----|----|----|----|----|
| I1-8-INTAKE VALVE SET | | | | | | | | |
| J1-8-INTAKE VALVE SET | | | | | | | | |
| K1-8-INTAKE VALVE SET | | | | | | | | |
| VALCAL-CAL. INTAKE VALVES | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | |
| MEAN | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Trevino, Bobby

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|---------------------------|----|----|----|----|----|----|----|----|
| I1-8-INTAKE VALVE SET | | | | | | | | |
| J1-8-INTAKE VALVE SET | | | | | | | | |
| K1-8-INTAKE VALVE SET | | | | | | | | |
| VALCAL-CAL. INTAKE VALVES | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | |
| MEAN | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Veiga, Victor

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|---------------------------|----|----|----|----|----|----|----|----|
| I1-8-INTAKE VALVE SET | | | | | | | | |
| J1-8-INTAKE VALVE SET | | | | | | | | |
| K1-8-INTAKE VALVE SET | | | | | | | | |
| VALCAL-CAL. INTAKE VALVES | | | | | | | | |
| MAXIMUM | | | | | | | | |
| MINIMUM | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | |
| MEAN | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Viera, Ralph B.

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 |
|---------------------------|--------|--------|-------|-------|--------|--------|--------|-------|
| I1-8-INTAKE VALVE SET | -2.15 | -1.38 | 0.60 | 0.88 | 1.34 | -1.33 | -1.05 | 0.20 |
| J1-8-INTAKE VALVE SET | -1.49 | 0.73 | -0.03 | 0.45 | 0.23 | -0.24 | -0.18 | -0.31 |
| K1-8-INTAKE VALVE SET | -0.56 | -1.67 | 0.42 | 0.54 | -2.15 | -0.17 | -1.22 | 0.87 |
| VALCAL-CAL. INTAKE VALVES | 0.64 | -0.13 | | | | | | |
| MAXIMUM | -2.15 | -1.67 | 0.60 | 0.88 | -2.15 | -1.33 | -1.22 | 0.87 |
| MINIMUM | -0.56 | -0.13 | -0.03 | 0.45 | 0.23 | -0.17 | -0.18 | 0.20 |
| RANGE(MAX-MIN) | -1.590 | -1.540 | 0.630 | 0.430 | -2.380 | -1.160 | -1.040 | 0.670 |
| MEAN | -0.890 | -0.613 | 0.330 | 0.623 | -0.193 | -0.580 | -0.817 | 0.253 |
| STANDARD DEVIATION | 1.211 | 1.117 | 0.324 | 0.227 | 1.783 | 0.650 | 0.558 | 0.592 |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Zalewski, John

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 | |
|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| I1-8-INTAKE VALVE SET | 0.91 | 0.54 | 1.11 | 1.20 | 1.34 | 0.81 | 0.40 | 1.51 | |
| J1-8-INTAKE VALVE SET | 1.14 | -0.24 | 1.29 | 1.13 | 0.57 | 0.72 | 0.22 | 0.66 | |
| K1-8-INTAKE VALVE SET | 0.22 | 0.15 | 0.73 | 0.54 | 0.43 | -0.17 | 0.23 | 0.46 | |
| VALCAL-CAL. INTAKE VALVES | | | | | | | | | |
| MAXIMUM | 1.14 | 0.54 | 1.29 | 1.20 | 1.34 | 0.81 | 0.40 | 1.51 | |
| MINIMUM | 0.22 | 0.15 | 0.73 | 0.54 | 0.43 | -0.17 | 0.22 | 0.46 | |
| RANGE(MAX-MIN) | 0.920 | 0.390 | 0.560 | 0.660 | 0.910 | 0.980 | 0.180 | 1.050 | |
| MEAN | 0.757 | 0.150 | 1.043 | 0.957 | 0.780 | 0.453 | 0.283 | 0.877 | |
| STANDARD DEVIATION | 0.479 | 0.390 | 0.286 | 0.363 | 0.490 | 0.542 | 0.101 | 0.558 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Adams, Patrick

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | -0.57 | -0.14 | | | | | | | |
| PTOPS-PISTON TOPS | | | | | | | | | |
| MAXIMUM | -0.57 | -0.14 | | | | | | | |
| MINIMUM | -0.57 | -0.14 | | | | | | | |
| RANGE(MAX-MIN) | 0.000 | 0.000 | | | | | | | |
| MEAN | -0.570 | -0.140 | | | | | | | |
| STANDARD DEVIATION | 0.000 | 0.000 | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Aguirre, Nancy P

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | | | | | | | | | |
| PTOPS-PISTON TOPS | | | | | | | | | |
| MAXIMUM | | | | | | | | | |
| MINIMUM | | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | | |
| MEAN | | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Avis, Steven

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | | | | | | | | | |
| PTOPS-PISTON TOPS | | | | | | | | | |
| MAXIMUM | | | | | | | | | |
| MINIMUM | | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | | |
| MEAN | | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Barrera, Tony

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | -1.24 | -1.73 | | | | | | | |
| PTOPS-PISTON TOPS | -1.48 | -1.87 | -1.58 | -1.78 | -1.30 | -1.40 | -1.35 | -1.48 | |
| MAXIMUM | -1.48 | -1.87 | -1.58 | -1.78 | -1.30 | -1.40 | -1.35 | -1.48 | |
| MINIMUM | -1.24 | -1.73 | -1.58 | -1.78 | -1.30 | -1.40 | -1.35 | -1.48 | |
| RANGE(MAX-MIN) | -0.240 | -0.140 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| MEAN | -1.360 | -1.800 | -1.580 | -1.780 | -1.300 | -1.400 | -1.350 | -1.480 | |
| STANDARD DEVIATION | 0.170 | 0.099 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Cales, Jonathon

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | | | | | | | | | |
| PTOPS-PISTON TOPS | | | | | | | | | |
| MAXIMUM | | | | | | | | | |
| MINIMUM | | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | | |
| MEAN | | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Campbell, Bryan

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | 0.32 | 0.80 | | | | | | | |
| PTOPS-PISTON TOPS | 0.76 | 0.51 | 0.94 | 1.00 | 0.86 | 0.53 | 0.77 | 0.68 | |
| MAXIMUM | 0.76 | 0.80 | 0.94 | 1.00 | 0.86 | 0.53 | 0.77 | 0.68 | |
| MINIMUM | 0.32 | 0.51 | 0.94 | 1.00 | 0.86 | 0.53 | 0.77 | 0.68 | |
| RANGE(MAX-MIN) | 0.440 | 0.290 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| MEAN | 0.540 | 0.655 | 0.940 | 1.000 | 0.860 | 0.530 | 0.770 | 0.680 | |
| STANDARD DEVIATION | 0.311 | 0.205 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Caproni, David

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | | | | | | | | | |
| PTOPS-PISTON TOPS | | | | | | | | | |
| MAXIMUM | | | | | | | | | |
| MINIMUM | | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | | |
| MEAN | | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Castillo, George

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | -1.47 | -1.81 | | | | | | | |
| PTOPS-PISTON TOPS | | | | | | | | | |
| MAXIMUM | -1.47 | -1.81 | | | | | | | |
| MINIMUM | -1.47 | -1.81 | | | | | | | |
| RANGE(MAX-MIN) | 0.000 | 0.000 | | | | | | | |
| MEAN | -1.470 | -1.810 | | | | | | | |
| STANDARD DEVIATION | 0.000 | 0.000 | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Cumberworth, Lee

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | -0.19 | 0.00 | | | | | | | |
| PTOPS-PISTON TOPS | | | | | | | | | |
| MAXIMUM | -0.19 | 0.00 | | | | | | | |
| MINIMUM | -0.19 | 0.00 | | | | | | | |
| RANGE(MAX-MIN) | 0.000 | 0.000 | | | | | | | |
| MEAN | -0.190 | 0.000 | | | | | | | |
| STANDARD DEVIATION | 0.000 | 0.000 | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Foecking, Brian

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | 1.47 | 1.57 | | | | | | | |
| PTOPS-PISTON TOPS | | | | | | | | | |
| MAXIMUM | 1.47 | 1.57 | | | | | | | |
| MINIMUM | 1.47 | 1.57 | | | | | | | |
| RANGE(MAX-MIN) | 0.000 | 0.000 | | | | | | | |
| MEAN | 1.470 | 1.570 | | | | | | | |
| STANDARD DEVIATION | 0.000 | 0.000 | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Greenland, Paul

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | | | | | | | | | |
| PTOPS-PISTON TOPS | | | | | | | | | |
| MAXIMUM | | | | | | | | | |
| MINIMUM | | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | | |
| MEAN | | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Grundza, Richard

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | | | | | | | | | |
| PTOPS-PISTON TOPS | | | | | | | | | |
| MAXIMUM | | | | | | | | | |
| MINIMUM | | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | | |
| MEAN | | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Hills, Barry

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | | | | | | | | | |
| PTOPS-PISTON TOPS | | | | | | | | | |
| MAXIMUM | | | | | | | | | |
| MINIMUM | | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | | |
| MEAN | | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Hurst, Kevin R.

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | | | | | | | | | |
| PTOPS-PISTON TOPS | | | | | | | | | |
| MAXIMUM | | | | | | | | | |
| MINIMUM | | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | | |
| MEAN | | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Kobrinetz, Joaquin J.

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | -0.50 | -0.24 | | | | | | | |
| PTOPS-PISTON TOPS | 0.07 | -0.09 | -0.06 | -0.22 | 0.09 | 0.23 | 0.22 | 0.26 | |
| MAXIMUM | -0.50 | -0.24 | -0.06 | -0.22 | 0.09 | 0.23 | 0.22 | 0.26 | |
| MINIMUM | 0.07 | -0.09 | -0.06 | -0.22 | 0.09 | 0.23 | 0.22 | 0.26 | |
| RANGE(MAX-MIN) | -0.570 | -0.150 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| MEAN | -0.215 | -0.165 | -0.060 | -0.220 | 0.090 | 0.230 | 0.220 | 0.260 | |
| STANDARD DEVIATION | 0.403 | 0.106 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Kraemer, Vernon

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | | | | | | | | | |
| PTOPS-PISTON TOPS | | | | | | | | | |
| MAXIMUM | | | | | | | | | |
| MINIMUM | | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | | |
| MEAN | | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Lonsway, Chris

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | 1.90 | 1.31 | | | | | | | |
| PTOPS-PISTON TOPS | | | | | | | | | |
| MAXIMUM | 1.90 | 1.31 | | | | | | | |
| MINIMUM | 1.90 | 1.31 | | | | | | | |
| RANGE(MAX-MIN) | 0.000 | 0.000 | | | | | | | |
| MEAN | 1.900 | 1.310 | | | | | | | |
| STANDARD DEVIATION | 0.000 | 0.000 | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Lopez, Frank

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | 0.96 | 0.69 | | | | | | | |
| PTOPS-PISTON TOPS | 1.05 | 1.23 | 0.79 | 0.67 | 0.66 | -0.07 | 0.14 | 0.82 | |
| MAXIMUM | 1.05 | 1.23 | 0.79 | 0.67 | 0.66 | -0.07 | 0.14 | 0.82 | |
| MINIMUM | 0.96 | 0.69 | 0.79 | 0.67 | 0.66 | -0.07 | 0.14 | 0.82 | |
| RANGE(MAX-MIN) | 0.090 | 0.540 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| MEAN | 1.005 | 0.960 | 0.790 | 0.670 | 0.660 | -0.070 | 0.140 | 0.820 | |
| STANDARD DEVIATION | 0.064 | 0.382 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Lowry, Shannon

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | | | | | | | | | |
| PTOPS-PISTON TOPS | | | | | | | | | |
| MAXIMUM | | | | | | | | | |
| MINIMUM | | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | | |
| MEAN | | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Lowsky, John

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | -0.27 | 0.08 | | | | | | | |
| PTOPS-PISTON TOPS | 0.13 | -0.29 | -0.22 | -0.07 | 0.27 | 0.06 | 0.41 | 0.28 | |
| MAXIMUM | -0.27 | -0.29 | -0.22 | -0.07 | 0.27 | 0.06 | 0.41 | 0.28 | |
| MINIMUM | 0.13 | 0.08 | -0.22 | -0.07 | 0.27 | 0.06 | 0.41 | 0.28 | |
| RANGE(MAX-MIN) | -0.400 | -0.370 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| MEAN | -0.070 | -0.105 | -0.220 | -0.070 | 0.270 | 0.060 | 0.410 | 0.280 | |
| STANDARD DEVIATION | 0.283 | 0.262 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= May, Marianne

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | | | | | | | | | |
| PTOPS-PISTON TOPS | | | | | | | | | |
| MAXIMUM | | | | | | | | | |
| MINIMUM | | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | | |
| MEAN | | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Millward, Glen

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | 0.57 | 0.51 | | | | | | | |
| PTOPS-PISTON TOPS | 1.27 | 1.48 | 1.73 | 1.51 | 1.62 | 1.82 | 1.57 | 1.21 | |
| MAXIMUM | 1.27 | 1.48 | 1.73 | 1.51 | 1.62 | 1.82 | 1.57 | 1.21 | |
| MINIMUM | 0.57 | 0.51 | 1.73 | 1.51 | 1.62 | 1.82 | 1.57 | 1.21 | |
| RANGE(MAX-MIN) | 0.700 | 0.970 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| MEAN | 0.920 | 0.995 | 1.730 | 1.510 | 1.620 | 1.820 | 1.570 | 1.210 | |
| STANDARD DEVIATION | 0.495 | 0.686 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Potocar, William P

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | | | | | | | | | |
| PTOPS-PISTON TOPS | | | | | | | | | |
| MAXIMUM | | | | | | | | | |
| MINIMUM | | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | | |
| MEAN | | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Rodriguez, Jesus (Jesse)

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | -1.06 | -0.98 | | | | | | | |
| PTOPS-PISTON TOPS | 0.22 | -0.04 | -0.32 | 0.22 | -0.78 | -0.77 | -0.86 | -0.58 | |
| MAXIMUM | -1.06 | -0.98 | -0.32 | 0.22 | -0.78 | -0.77 | -0.86 | -0.58 | |
| MINIMUM | 0.22 | -0.04 | -0.32 | 0.22 | -0.78 | -0.77 | -0.86 | -0.58 | |
| RANGE(MAX-MIN) | -1.280 | -0.940 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| MEAN | -0.420 | -0.510 | -0.320 | 0.220 | -0.780 | -0.770 | -0.860 | -0.580 | |
| STANDARD DEVIATION | 0.905 | 0.665 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Sanchez, Arthur

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | -0.40 | -0.28 | | | | | | | |
| PTOPS-PISTON TOPS | -0.56 | -0.44 | -0.51 | -0.41 | -0.07 | 0.72 | 0.49 | 0.41 | |
| MAXIMUM | -0.56 | -0.44 | -0.51 | -0.41 | -0.07 | 0.72 | 0.49 | 0.41 | |
| MINIMUM | -0.40 | -0.28 | -0.51 | -0.41 | -0.07 | 0.72 | 0.49 | 0.41 | |
| RANGE(MAX-MIN) | -0.160 | -0.160 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| MEAN | -0.480 | -0.360 | -0.510 | -0.410 | -0.070 | 0.720 | 0.490 | 0.410 | |
| STANDARD DEVIATION | 0.113 | 0.113 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Seiz, Ray

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | 0.47 | 0.23 | | | | | | | |
| PTOPS-PISTON TOPS | -1.46 | -0.49 | -0.77 | -0.92 | -1.34 | -1.13 | -1.37 | -1.60 | |
| MAXIMUM | -1.46 | -0.49 | -0.77 | -0.92 | -1.34 | -1.13 | -1.37 | -1.60 | |
| MINIMUM | 0.47 | 0.23 | -0.77 | -0.92 | -1.34 | -1.13 | -1.37 | -1.60 | |
| RANGE(MAX-MIN) | -1.930 | -0.720 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |
| MEAN | -0.495 | -0.130 | -0.770 | -0.920 | -1.340 | -1.130 | -1.370 | -1.600 | |
| STANDARD DEVIATION | 1.365 | 0.509 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Swanson, Dennis

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | | | | | | | | | |
| PTOPS-PISTON TOPS | | | | | | | | | |
| MAXIMUM | | | | | | | | | |
| MINIMUM | | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | | |
| MEAN | | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Terrado, Ken

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | | | | | | | | | |
| PTOPS-PISTON TOPS | | | | | | | | | |
| MAXIMUM | | | | | | | | | |
| MINIMUM | | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | | |
| MEAN | | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Trevino, Bobby

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | | | | | | | | | |
| PTOPS-PISTON TOPS | | | | | | | | | |
| MAXIMUM | | | | | | | | | |
| MINIMUM | | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | | |
| MEAN | | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Veiga, Victor

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | | | | | | | | | |
| PTOPS-PISTON TOPS | | | | | | | | | |
| MAXIMUM | | | | | | | | | |
| MINIMUM | | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | | |
| MEAN | | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Viera, Ralph B.

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | | | | | | | | | |
| PTOPS-PISTON TOPS | | | | | | | | | |
| MAXIMUM | | | | | | | | | |
| MINIMUM | | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | | |
| MEAN | | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Zalewski, John

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | P1MERI | P2MERI | P3MERI | P4MERI | P5MERI | P6MERI | P7MERI | P8MERI | |
|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| PTCAL-CAL. PISTON TOPS | | | | | | | | | |
| PTOPS-PISTON TOPS | | | | | | | | | |
| MAXIMUM | | | | | | | | | |
| MINIMUM | | | | | | | | | |
| RANGE(MAX-MIN) | | | | | | | | | |
| MEAN | | | | | | | | | |
| STANDARD DEVIATION | | | | | | | | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Adams, Patrick

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | -0.75 | |
| VOPB-OIL PAN BFL SLUDGE | -0.32 | |
| VRCBL-RC BFL SLUDGE L | -0.94 | |
| VRCBR-RC BFL SLUDGE R | -0.90 | |
| VRCL-RC SLUDGE L | -1.85 | |
| VRCL-RC SLUDGE R | -1.79 | |
| VSCALL-CAL RC BFL SLUDGE L | 0.13 | |
| VSCALR-CAL RC BFL SLUDGE R | -0.26 | |
| VTCC-TC CVR SLUDGE | -1.06 | |
| VVDL-VALVE DECK SLUDGE L | 0.06 | |
| VVDR-VALVE DECK SLUDGE R | -0.47 | |
| MAXIMUM | -1.85 | |
| MINIMUM | 0.06 | |
| RANGE(MAX-MIN) | -1.910 | |
| MEAN | -0.741 | |
| STANDARD DEVIATION | 0.662 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Aguirre, Nancy P

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | -1.00 | |
| VOPB-OIL PAN BFL SLUDGE | -1.26 | |
| VRCL-RC BFL SLUDGE L | 0.04 | |
| VRCL-RC BFL SLUDGE R | 0.33 | |
| VRCL-RC SLUDGE L | 0.72 | |
| VRCL-RC SLUDGE R | 0.38 | |
| VSCAL-CAL RC BFL SLUDGE L | 0.92 | |
| VSCALR-CAL RC BFL SLUDGE R | 0.47 | |
| VTCC-TC CVR SLUDGE | 0.18 | |
| VVDL-VALVE DECK SLUDGE L | -0.49 | |
| VVDR-VALVE DECK SLUDGE R | 0.55 | |
| MAXIMUM | -1.26 | |
| MINIMUM | 0.04 | |
| RANGE(MAX-MIN) | -1.300 | |
| MEAN | 0.076 | |
| STANDARD DEVIATION | 0.703 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Avis, Steven

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | 0.94 | |
| VOPB-OIL PAN BFL SLUDGE | 1.10 | |
| VRCL-RC BFL SLUDGE L | 0.56 | |
| VRCL-RC BFL SLUDGE R | 0.70 | |
| VRCL-RC SLUDGE L | 0.20 | |
| VRCL-RC SLUDGE R | 0.05 | |
| VSCAL-CAL RC BFL SLUDGE L | -0.34 | |
| VSCALR-CAL RC BFL SLUDGE R | 0.06 | |
| VTCC-TC CVR SLUDGE | 1.82 | |
| VVDL-VALVE DECK SLUDGE L | 1.80 | |
| VVDR-VALVE DECK SLUDGE R | 1.18 | |
| MAXIMUM | 1.82 | |
| MINIMUM | 0.05 | |
| RANGE(MAX-MIN) | 1.770 | |
| MEAN | 0.734 | |
| STANDARD DEVIATION | 0.713 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Barrera, Tony

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | 1.18 | |
| VOPB-OIL PAN BFL SLUDGE | 0.51 | |
| VRCL-RC BFL SLUDGE L | 0.71 | |
| VRCL-RC BFL SLUDGE R | 0.33 | |
| VRCL-RC SLUDGE L | 0.09 | |
| VRCL-RC SLUDGE R | -0.15 | |
| VSCAL-CAL RC BFL SLUDGE L | 0.53 | |
| VSCALR-CAL RC BFL SLUDGE R | 0.47 | |
| VTCC-TC CVR SLUDGE | -0.24 | |
| VVDL-VALVE DECK SLUDGE L | 0.69 | |
| VVDR-VALVE DECK SLUDGE R | 0.87 | |
| MAXIMUM | 1.18 | |
| MINIMUM | 0.09 | |
| RANGE(MAX-MIN) | 1.090 | |
| MEAN | 0.454 | |
| STANDARD DEVIATION | 0.427 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Cales, Jonathon

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | -1.72 | |
| VOPB-OIL PAN BFL SLUDGE | -0.55 | |
| VRCBL-RC BFL SLUDGE L | -0.86 | |
| VRCBR-RC BFL SLUDGE R | -0.90 | |
| VRCL-RC SLUDGE L | -0.02 | |
| VRCL-RC SLUDGE R | 0.62 | |
| VSCALL-CAL RC BFL SLUDGE L | -0.73 | |
| VSCALR-CAL RC BFL SLUDGE R | -0.74 | |
| VTCC-TC CVR SLUDGE | -0.24 | |
| VVDL-VALVE DECK SLUDGE L | -0.97 | |
| VVDR-VALVE DECK SLUDGE R | 0.00 | |
| MAXIMUM | -1.72 | |
| MINIMUM | 0.00 | |
| RANGE(MAX-MIN) | -1.720 | |
| MEAN | -0.555 | |
| STANDARD DEVIATION | 0.623 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Caproni, David

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | 1.18 | |
| VOPB-OIL PAN BFL SLUDGE | -0.67 | |
| VRCL-RC BFL SLUDGE L | 0.19 | |
| VRCL-RC BFL SLUDGE R | 0.33 | |
| VRCL-RC SLUDGE L | -0.54 | |
| VRCL-RC SLUDGE R | 0.25 | |
| VSCAL-CAL RC BFL SLUDGE L | -0.97 | |
| VSCALR-CAL RC BFL SLUDGE R | 0.31 | |
| VTCC-TC CVR SLUDGE | -0.10 | |
| VVDL-VALVE DECK SLUDGE L | 0.06 | |
| VVDR-VALVE DECK SLUDGE R | 1.26 | |
| MAXIMUM | 1.26 | |
| MINIMUM | 0.06 | |
| RANGE(MAX-MIN) | 1.200 | |
| MEAN | 0.118 | |
| STANDARD DEVIATION | 0.695 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Castillo, George

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | 1.43 | |
| VOPB-OIL PAN BFL SLUDGE | 1.81 | |
| VRCBL-RC BFL SLUDGE L | 0.34 | |
| VRCBR-RC BFL SLUDGE R | 0.42 | |
| VRCL-RC SLUDGE L | -0.77 | |
| VRCL-RC SLUDGE R | -1.34 | |
| VSCALL-CAL RC BFL SLUDGE L | 0.29 | |
| VSCALR-CAL RC BFL SLUDGE R | -1.80 | |
| VTCC-TC CVR SLUDGE | 0.59 | |
| VVDL-VALVE DECK SLUDGE L | 1.24 | |
| VVDR-VALVE DECK SLUDGE R | 0.95 | |
| MAXIMUM | 1.81 | |
| MINIMUM | 0.29 | |
| RANGE(MAX-MIN) | 1.520 | |
| MEAN | 0.287 | |
| STANDARD DEVIATION | 1.149 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Cumberworth, Lee

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | 0.58 | |
| VOPB-OIL PAN BFL SLUDGE | -0.32 | |
| VRCBL-RC BFL SLUDGE L | -0.94 | |
| VRCBR-RC BFL SLUDGE R | -0.90 | |
| VRCL-RC SLUDGE L | 0.26 | |
| VRCL-RC SLUDGE R | -0.24 | |
| VSCALL-CAL RC BFL SLUDGE L | 0.53 | |
| VSCALR-CAL RC BFL SLUDGE R | -0.18 | |
| VTCC-TC CVR SLUDGE | -1.06 | |
| VVDL-VALVE DECK SLUDGE L | -0.49 | |
| VVDR-VALVE DECK SLUDGE R | -0.95 | |
| MAXIMUM | -1.06 | |
| MINIMUM | -0.18 | |
| RANGE(MAX-MIN) | -0.880 | |
| MEAN | -0.337 | |
| STANDARD DEVIATION | 0.599 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Foecking, Brian

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | -0.75 | |
| VOPB-OIL PAN BFL SLUDGE | -0.67 | |
| VRCL-RC BFL SLUDGE L | 0.04 | |
| VRCL-RC BFL SLUDGE R | 0.04 | |
| VRCL-RC SLUDGE L | -0.54 | |
| VRCL-RC SLUDGE R | -0.68 | |
| VSCAL-CAL RC BFL SLUDGE L | -1.76 | |
| VSCALR-CAL RC BFL SLUDGE R | -1.31 | |
| VTCC-TC CVR SLUDGE | -0.92 | |
| VVDL-VALVE DECK SLUDGE L | -0.18 | |
| VVDR-VALVE DECK SLUDGE R | -0.87 | |
| MAXIMUM | -1.76 | |
| MINIMUM | 0.04 | |
| RANGE(MAX-MIN) | -1.800 | |
| MEAN | -0.691 | |
| STANDARD DEVIATION | 0.545 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Greenland, Paul

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | 0.09 | |
| VOPB-OIL PAN BFL SLUDGE | -0.79 | |
| VRCL-RC BFL SLUDGE L | 0.19 | |
| VRCL-RC BFL SLUDGE R | 0.33 | |
| VRCL-RC SLUDGE L | 1.18 | |
| VRCL-RC SLUDGE R | 0.25 | |
| VSCAL-CAL RC BFL SLUDGE L | 0.84 | |
| VSCALR-CAL RC BFL SLUDGE R | 0.79 | |
| VTCC-TC CVR SLUDGE | 0.72 | |
| VVDL-VALVE DECK SLUDGE L | 1.24 | |
| VVDR-VALVE DECK SLUDGE R | 1.18 | |
| MAXIMUM | 1.24 | |
| MINIMUM | 0.09 | |
| RANGE(MAX-MIN) | 1.150 | |
| MEAN | 0.547 | |
| STANDARD DEVIATION | 0.610 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Grundza, Richard

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | | |
| VOPB-OIL PAN BFL SLUDGE | | |
| VRCBL-RC BFL SLUDGE L | | |
| VRCBR-RC BFL SLUDGE R | | |
| VRCL-RC SLUDGE L | | |
| VRCL-RC SLUDGE R | | |
| VSCALL-CAL RC BFL SLUDGE L | | |
| VSCALR-CAL RC BFL SLUDGE R | | |
| VTCC-TC CVR SLUDGE | | |
| VVDL-VALVE DECK SLUDGE L | | |
| VVDR-VALVE DECK SLUDGE R | | |
| MAXIMUM | | |
| MINIMUM | | |
| RANGE(MAX-MIN) | | |
| MEAN | | |
| STANDARD DEVIATION | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Hills, Barry

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | -1.24 | |
| VOPB-OIL PAN BFL SLUDGE | -0.67 | |
| VRCL-RC BFL SLUDGE L | -1.69 | |
| VRCL-RC BFL SLUDGE R | -1.83 | |
| VRCL-RC SLUDGE L | 0.60 | |
| VRCL-RC SLUDGE R | -0.32 | |
| VSCAL-CAL RC BFL SLUDGE L | -1.29 | |
| VSCALR-CAL RC BFL SLUDGE R | -0.58 | |
| VTCC-TC CVR SLUDGE | 1.14 | |
| VVDL-VALVE DECK SLUDGE L | 0.53 | |
| VVDR-VALVE DECK SLUDGE R | -0.16 | |
| MAXIMUM | -1.83 | |
| MINIMUM | -0.16 | |
| RANGE(MAX-MIN) | -1.670 | |
| MEAN | -0.501 | |
| STANDARD DEVIATION | 0.975 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Hurst, Kevin R.

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | 1.91 | |
| VOPB-OIL PAN BFL SLUDGE | 1.57 | |
| VRCBL-RC BFL SLUDGE L | 1.46 | |
| VRCBR-RC BFL SLUDGE R | 2.30 | |
| VRCL-RC SLUDGE L | 1.80 | |
| VRCL-RC SLUDGE R | 1.31 | |
| VSCALL-CAL RC BFL SLUDGE L | 1.71 | |
| VSCALR-CAL RC BFL SLUDGE R | 2.33 | |
| VTCC-TC CVR SLUDGE | 1.00 | |
| VVDL-VALVE DECK SLUDGE L | 1.16 | |
| VVDR-VALVE DECK SLUDGE R | 1.42 | |
| MAXIMUM | 2.33 | |
| MINIMUM | 1.00 | |
| RANGE(MAX-MIN) | 1.330 | |
| MEAN | 1.634 | |
| STANDARD DEVIATION | 0.430 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Kobrinetz, Joaquin J.

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | | |
| VOPB-OIL PAN BFL SLUDGE | 1.93 | |
| VRCL-RC BFL SLUDGE L | 0.41 | |
| VRCL-RC BFL SLUDGE R | 0.23 | |
| VRCL-RC SLUDGE L | 0.32 | |
| VRCL-RC SLUDGE R | 0.46 | |
| VSCAL-CAL RC BFL SLUDGE L | -0.97 | |
| VSCALR-CAL RC BFL SLUDGE R | -1.39 | |
| VTCC-TC CVR SLUDGE | 0.18 | |
| VVDL-VALVE DECK SLUDGE L | 0.14 | |
| VVDL-VALVE DECK SLUDGE R | | |
| MAXIMUM | 1.93 | |
| MINIMUM | 0.14 | |
| RANGE(MAX-MIN) | 1.790 | |
| MEAN | 0.146 | |
| STANDARD DEVIATION | 0.935 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Kraemer, Vernon

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | 0.70 | |
| VOPB-OIL PAN BFL SLUDGE | -0.91 | |
| VRCL-RC BFL SLUDGE L | 0.56 | |
| VRCL-RC BFL SLUDGE R | 0.33 | |
| VRCL-RC SLUDGE L | 0.26 | |
| VRCL-RC SLUDGE R | 1.27 | |
| VSCAL-CAL RC BFL SLUDGE L | | |
| VSCALR-CAL RC BFL SLUDGE R | | |
| VTCC-TC CVR SLUDGE | 0.31 | |
| VVDL-VALVE DECK SLUDGE L | 0.53 | |
| VVDR-VALVE DECK SLUDGE R | 0.08 | |
| MAXIMUM | 1.27 | |
| MINIMUM | 0.08 | |
| RANGE(MAX-MIN) | 1.190 | |
| MEAN | 0.348 | |
| STANDARD DEVIATION | 0.583 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Lonsway, Chris

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | -0.63 | |
| VOPB-OIL PAN BFL SLUDGE | -0.67 | |
| VRCL-RC BFL SLUDGE L | 0.19 | |
| VRCL-RC BFL SLUDGE R | 0.33 | |
| VRCL-RC SLUDGE L | 0.20 | |
| VRCL-RC SLUDGE R | -0.24 | |
| VSCAL-CAL RC BFL SLUDGE L | 0.29 | |
| VSCALR-CAL RC BFL SLUDGE R | 0.31 | |
| VTCC-TC CVR SLUDGE | 1.14 | |
| VVDL-VALVE DECK SLUDGE L | -0.97 | |
| VVDR-VALVE DECK SLUDGE R | -1.81 | |
| MAXIMUM | -1.81 | |
| MINIMUM | 0.19 | |
| RANGE(MAX-MIN) | -2.000 | |
| MEAN | -0.169 | |
| STANDARD DEVIATION | 0.804 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Lopez, Frank

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | 0.58 | |
| VOPB-OIL PAN BFL SLUDGE | 1.81 | |
| VRCL-RC BFL SLUDGE L | 0.71 | |
| VRCL-RC BFL SLUDGE R | 0.70 | |
| VRCL-RC SLUDGE L | -1.00 | |
| VRCL-RC SLUDGE R | -1.58 | |
| VSCAL-CAL RC BFL SLUDGE L | 0.84 | |
| VSCALR-CAL RC BFL SLUDGE R | 1.36 | |
| VTCC-TC CVR SLUDGE | 1.14 | |
| VVDL-VALVE DECK SLUDGE L | 0.45 | |
| VVDR-VALVE DECK SLUDGE R | 0.16 | |
| MAXIMUM | 1.81 | |
| MINIMUM | 0.16 | |
| RANGE(MAX-MIN) | 1.650 | |
| MEAN | 0.470 | |
| STANDARD DEVIATION | 0.988 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Lowry, Shannon

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | | |
| VOPB-OIL PAN BFL SLUDGE | | |
| VRCBL-RC BFL SLUDGE L | | |
| VRCBR-RC BFL SLUDGE R | | |
| VRCL-RC SLUDGE L | | |
| VRCL-RC SLUDGE R | | |
| VSCALL-CAL RC BFL SLUDGE L | | |
| VSCALR-CAL RC BFL SLUDGE R | | |
| VTCC-TC CVR SLUDGE | | |
| VVDL-VALVE DECK SLUDGE L | | |
| VVDR-VALVE DECK SLUDGE R | | |
| MAXIMUM | | |
| MINIMUM | | |
| RANGE(MAX-MIN) | | |
| MEAN | | |
| STANDARD DEVIATION | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Lowsky, John

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | -0.15 | |
| VOPB-OIL PAN BFL SLUDGE | -0.91 | |
| VRCBL-RC BFL SLUDGE L | -3.11 | |
| VRCBR-RC BFL SLUDGE R | -1.46 | |
| VRCL-RC SLUDGE L | -2.25 | |
| VRCL-RC SLUDGE R | -1.50 | |
| VSCALL-CAL RC BFL SLUDGE L | -1.44 | |
| VSCALR-CAL RC BFL SLUDGE R | -1.39 | |
| VTCC-TC CVR SLUDGE | -0.79 | |
| VVDL-VALVE DECK SLUDGE L | -0.10 | |
| VVDR-VALVE DECK SLUDGE R | 0.39 | |
| MAXIMUM | -3.11 | |
| MINIMUM | -0.10 | |
| RANGE(MAX-MIN) | -3.010 | |
| MEAN | -1.155 | |
| STANDARD DEVIATION | 1.004 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= May, Marianne

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | -0.03 | |
| VOPB-OIL PAN BFL SLUDGE | -0.91 | |
| VRCL-RC BFL SLUDGE L | 0.04 | |
| VRCL-RC BFL SLUDGE R | -0.33 | |
| VRCL-RC SLUDGE L | 0.09 | |
| VRCL-RC SLUDGE R | -0.68 | |
| VSCAL-CAL RC BFL SLUDGE L | 0.92 | |
| VSCALR-CAL RC BFL SLUDGE R | 0.06 | |
| VTCC-TC CVR SLUDGE | -1.33 | |
| VVDL-VALVE DECK SLUDGE L | -0.10 | |
| VVDR-VALVE DECK SLUDGE R | -0.47 | |
| MAXIMUM | -1.33 | |
| MINIMUM | -0.03 | |
| RANGE(MAX-MIN) | -1.300 | |
| MEAN | -0.249 | |
| STANDARD DEVIATION | 0.598 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Millward, Glen

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | 1.06 | |
| VOPB-OIL PAN BFL SLUDGE | 0.98 | |
| VRCL-RC BFL SLUDGE L | 1.39 | |
| VRCL-RC BFL SLUDGE R | 1.55 | |
| VRCL-RC SLUDGE L | -0.02 | |
| VRCL-RC SLUDGE R | 2.09 | |
| VSCAL-CAL RC BFL SLUDGE L | 1.16 | |
| VSCALR-CAL RC BFL SLUDGE R | -0.18 | |
| VTCC-TC CVR SLUDGE | -0.37 | |
| VVDL-VALVE DECK SLUDGE L | | |
| VVDR-VALVE DECK SLUDGE R | | |
| MAXIMUM | 2.09 | |
| MINIMUM | -0.02 | |
| RANGE(MAX-MIN) | 2.110 | |
| MEAN | 0.851 | |
| STANDARD DEVIATION | 0.850 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Potocar, William P

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | 0.58 | |
| VOPB-OIL PAN BFL SLUDGE | 0.51 | |
| VRCL-RC BFL SLUDGE L | 0.79 | |
| VRCL-RC BFL SLUDGE R | 0.04 | |
| VRCL-RC SLUDGE L | 0.15 | |
| VRCL-RC SLUDGE R | 0.87 | |
| VSCAL-CAL RC BFL SLUDGE L | -1.60 | |
| VSCALR-CAL RC BFL SLUDGE R | -0.42 | |
| VTCC-TC CVR SLUDGE | 0.04 | |
| VVDL-VALVE DECK SLUDGE L | -1.92 | |
| VVDR-VALVE DECK SLUDGE R | -1.10 | |
| MAXIMUM | -1.92 | |
| MINIMUM | 0.04 | |
| RANGE(MAX-MIN) | -1.960 | |
| MEAN | -0.187 | |
| STANDARD DEVIATION | 0.962 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Rodriguez, Jesus (Jesse)

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | -0.87 | |
| VOPB-OIL PAN BFL SLUDGE | 0.27 | |
| VRCL-RC BFL SLUDGE L | -0.19 | |
| VRCL-RC BFL SLUDGE R | -0.90 | |
| VRCL-RC SLUDGE L | -0.02 | |
| VRCL-RC SLUDGE R | -1.50 | |
| VSCAL-CAL RC BFL SLUDGE L | -0.66 | |
| VSCALR-CAL RC BFL SLUDGE R | -0.10 | |
| VTCC-TC CVR SLUDGE | 0.04 | |
| VVDL-VALVE DECK SLUDGE L | 1.16 | |
| VVDR-VALVE DECK SLUDGE R | 0.32 | |
| MAXIMUM | -1.50 | |
| MINIMUM | -0.02 | |
| RANGE(MAX-MIN) | -1.480 | |
| MEAN | -0.223 | |
| STANDARD DEVIATION | 0.726 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Sanchez, Arthur

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | 0.70 | |
| VOPB-OIL PAN BFL SLUDGE | 0.75 | |
| VRCL-RC BFL SLUDGE L | -0.41 | |
| VRCL-RC BFL SLUDGE R | -0.61 | |
| VRCL-RC SLUDGE L | -1.85 | |
| VRCL-RC SLUDGE R | -0.32 | |
| VSCAL-CAL RC BFL SLUDGE L | -1.29 | |
| VSCALR-CAL RC BFL SLUDGE R | -1.07 | |
| VTCC-TC CVR SLUDGE | -0.79 | |
| VVDL-VALVE DECK SLUDGE L | -0.34 | |
| VVDR-VALVE DECK SLUDGE R | 0.00 | |
| MAXIMUM | -1.85 | |
| MINIMUM | 0.00 | |
| RANGE(MAX-MIN) | -1.850 | |
| MEAN | -0.475 | |
| STANDARD DEVIATION | 0.786 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Seiz, Ray

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | -0.63 | |
| VOPB-OIL PAN BFL SLUDGE | -1.50 | |
| VRCBL-RC BFL SLUDGE L | -1.46 | |
| VRCBR-RC BFL SLUDGE R | -1.55 | |
| VRCL-RC SLUDGE L | -1.51 | |
| VRCL-RC SLUDGE R | -0.24 | |
| VSCALL-CAL RC BFL SLUDGE L | -0.66 | |
| VSCALR-CAL RC BFL SLUDGE R | -0.66 | |
| VTCC-TC CVR SLUDGE | -1.88 | |
| VVDL-VALVE DECK SLUDGE L | 0.45 | |
| VVDR-VALVE DECK SLUDGE R | 1.18 | |
| MAXIMUM | -1.88 | |
| MINIMUM | -0.24 | |
| RANGE(MAX-MIN) | -1.640 | |
| MEAN | -0.769 | |
| STANDARD DEVIATION | 0.949 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Swanson, Dennis

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | | |
| VOPB-OIL PAN BFL SLUDGE | | |
| VRCBL-RC BFL SLUDGE L | | |
| VRCBR-RC BFL SLUDGE R | | |
| VRCL-RC SLUDGE L | | |
| VRCL-RC SLUDGE R | | |
| VSCALL-CAL RC BFL SLUDGE L | | |
| VSCALR-CAL RC BFL SLUDGE R | | |
| VTCC-TC CVR SLUDGE | | |
| VVDL-VALVE DECK SLUDGE L | | |
| VVDR-VALVE DECK SLUDGE R | | |
| MAXIMUM | | |
| MINIMUM | | |
| RANGE(MAX-MIN) | | |
| MEAN | | |
| STANDARD DEVIATION | | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Terrado, Ken

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | | |
| VOPB-OIL PAN BFL SLUDGE | | |
| VRCBL-RC BFL SLUDGE L | 0.86 | |
| VRCBR-RC BFL SLUDGE R | | |
| VRCL-RC SLUDGE L | | |
| VRCL-RC SLUDGE R | | |
| VSCALL-CAL RC BFL SLUDGE L | 0.92 | |
| VSCALR-CAL RC BFL SLUDGE R | 0.79 | |
| VTCC-TC CVR SLUDGE | 1.82 | |
| VVDL-VALVE DECK SLUDGE L | | |
| VVDR-VALVE DECK SLUDGE R | | |
| MAXIMUM | 1.82 | |
| MINIMUM | 0.79 | |
| RANGE(MAX-MIN) | 1.030 | |
| MEAN | 1.098 | |
| STANDARD DEVIATION | 0.485 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Terrado, Ken

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | | |
| VOPB-OIL PAN BFL SLUDGE | | |
| VRCBL-RC BFL SLUDGE L | 0.86 | |
| VRCBR-RC BFL SLUDGE R | | |
| VRCL-RC SLUDGE L | | |
| VRCL-RC SLUDGE R | | |
| VSCALL-CAL RC BFL SLUDGE L | 0.92 | |
| VSCALR-CAL RC BFL SLUDGE R | 0.79 | |
| VTCC-TC CVR SLUDGE | 1.82 | |
| VVDL-VALVE DECK SLUDGE L | | |
| VVDR-VALVE DECK SLUDGE R | | |
| MAXIMUM | 1.82 | |
| MINIMUM | 0.79 | |
| RANGE(MAX-MIN) | 1.030 | |
| MEAN | 1.098 | |
| STANDARD DEVIATION | 0.485 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Trevino, Bobby

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | -0.15 | |
| VOPB-OIL PAN BFL SLUDGE | -0.43 | |
| VRCL-RC BFL SLUDGE L | 0.41 | |
| VRCL-RC BFL SLUDGE R | 0.33 | |
| VRCL-RC SLUDGE L | 1.40 | |
| VRCL-RC SLUDGE R | 0.66 | |
| VSCAL-CAL RC BFL SLUDGE L | 0.53 | |
| VSCALR-CAL RC BFL SLUDGE R | 0.55 | |
| VTCC-TC CVR SLUDGE | -0.65 | |
| VVDL-VALVE DECK SLUDGE L | -0.10 | |
| VVDR-VALVE DECK SLUDGE R | -0.47 | |
| MAXIMUM | 1.40 | |
| MINIMUM | -0.10 | |
| RANGE(MAX-MIN) | 1.500 | |
| MEAN | 0.189 | |
| STANDARD DEVIATION | 0.610 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Veiga, Victor

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | -0.63 | |
| VOPB-OIL PAN BFL SLUDGE | -0.67 | |
| VRCL-RC BFL SLUDGE L | -0.34 | |
| VRCL-RC BFL SLUDGE R | -0.33 | |
| VRCL-RC SLUDGE L | 1.12 | |
| VRCL-RC SLUDGE R | 0.99 | |
| VSCAL-CAL RC BFL SLUDGE L | 1.71 | |
| VSCALR-CAL RC BFL SLUDGE R | 2.25 | |
| VTCC-TC CVR SLUDGE | 1.14 | |
| VVDL-VALVE DECK SLUDGE L | 0.53 | |
| VVDR-VALVE DECK SLUDGE R | -0.16 | |
| MAXIMUM | 2.25 | |
| MINIMUM | -0.16 | |
| RANGE(MAX-MIN) | 2.410 | |
| MEAN | 0.510 | |
| STANDARD DEVIATION | 1.002 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Viera, Ralph B.

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | 0.34 | |
| VOPB-OIL PAN BFL SLUDGE | 0.86 | |
| VRCBL-RC BFL SLUDGE L | 0.64 | |
| VRCBR-RC BFL SLUDGE R | 0.14 | |
| VRCL-RC SLUDGE L | 1.00 | |
| VRCL-RC SLUDGE R | 1.44 | |
| VSCALL-CAL RC BFL SLUDGE L | -0.34 | |
| VSCALR-CAL RC BFL SLUDGE R | -0.18 | |
| VTCC-TC CVR SLUDGE | 0.59 | |
| VVDL-VALVE DECK SLUDGE L | -1.20 | |
| VVDR-VALVE DECK SLUDGE R | 0.55 | |
| MAXIMUM | 1.44 | |
| MINIMUM | 0.14 | |
| RANGE(MAX-MIN) | 1.300 | |
| MEAN | 0.349 | |
| STANDARD DEVIATION | 0.725 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Rater= Zalewski, John

YI Values

* Denotes parameters not used in Blue, Red, White & Yellow assessment

| PartID | TOTALS | |
|----------------------------|--------|--|
| VOP-OIL PAN SLUDGE | -0.63 | |
| VOPB-OIL PAN BFL SLUDGE | -0.43 | |
| VRCL-RC BFL SLUDGE L | -0.86 | |
| VRCL-RC BFL SLUDGE R | -0.90 | |
| VRCL-RC SLUDGE L | 0.55 | |
| VRCL-RC SLUDGE R | 0.62 | |
| VSCAL-CAL RC BFL SLUDGE L | 0.37 | |
| VSCALR-CAL RC BFL SLUDGE R | -0.34 | |
| VTCC-TC CVR SLUDGE | -0.65 | |
| VVDL-VALVE DECK SLUDGE L | -0.49 | |
| VVDR-VALVE DECK SLUDGE R | -1.02 | |
| MAXIMUM | -1.02 | |
| MINIMUM | -0.34 | |
| RANGE(MAX-MIN) | -0.680 | |
| MEAN | -0.344 | |
| STANDARD DEVIATION | 0.589 | |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Light Duty Piston Deposits

| Rater | Parts Rated | -1<yi<=1 | -2<yi<=2 | -3<yi<=3 | >3 | Yi STD | Group | Group Color |
|--------------------------|-------------|----------|----------|----------|------|--------|--------|-------------|
| Adams, Patrick | 14 | 69.7% | 95.0% | 99.0% | 1.0% | 0.94 | WHITE | |
| Aguirre, Nancy P | 11 | 75.6% | 96.3% | 98.8% | 1.2% | 0.88 | WHITE | |
| Avis, Steven | 21 | 71.0% | 99.4% | 100.0% | 0.0% | 0.89 | WHITE | |
| Barrera, Tony | 15 | 83.6% | 97.3% | 99.1% | 0.9% | 0.79 | RED | |
| Cales, Jonathon | 15 | 79.4% | 97.2% | 100.0% | 0.0% | 0.84 | WHITE | |
| Caproni, David | 14 | 82.8% | 99.0% | 100.0% | 0.0% | 0.75 | RED | |
| Castillo, George | 17 | 75.8% | 96.7% | 99.2% | 0.8% | 0.86 | WHITE | |
| Cumberworth, Lee | 13 | 74.7% | 99.0% | 100.0% | 0.0% | 0.84 | WHITE | |
| Foecking, Brian | 12 | 78.7% | 100.0% | 100.0% | 0.0% | 0.76 | WHITE | |
| Greenland, Paul | 11 | 73.1% | 93.6% | 98.7% | 1.3% | 1.06 | WHITE | |
| Hills, Barry | 16 | 81.4% | 99.2% | 100.0% | 0.0% | 0.83 | RED | |
| Hurst, Kevin R. | 26 | 75.1% | 99.0% | 100.0% | 0.0% | 0.82 | WHITE | |
| Kobrinetz, Joaquin J. | 8 | 81.7% | 100.0% | 100.0% | 0.0% | 0.62 | RED | |
| Kraemer, Vernon | 14 | 43.9% | 77.6% | 94.4% | 5.6% | 1.64 | YELLOW | |
| Lonsway, Chris | 12 | 83.5% | 100.0% | 100.0% | 0.0% | 0.72 | RED | |
| Lopez, Frank | 15 | 81.7% | 100.0% | 100.0% | 0.0% | 0.72 | RED | |
| Lowry, Shannon | 8 | 71.4% | 98.4% | 100.0% | 0.0% | 0.80 | WHITE | |
| Lowsky, John | 15 | 53.9% | 89.4% | 100.0% | 0.0% | 1.13 | YELLOW | |
| May, Marianne | 13 | 68.7% | 97.0% | 100.0% | 0.0% | 0.93 | WHITE | |
| Potocar, William P | 14 | 78.8% | 98.0% | 100.0% | 0.0% | 0.76 | WHITE | |
| Rodriguez, Jesus (Jesse) | 14 | 82.8% | 99.0% | 100.0% | 0.0% | 0.72 | RED | |
| Sanchez, Arthur | 14 | 71.7% | 96.0% | 99.0% | 1.0% | 1.00 | WHITE | |
| Swanson, Dennis | 19 | 57.3% | 86.2% | 99.3% | 0.7% | 1.26 | YELLOW | |
| Trevino, Bobby | 10 | 88.8% | 98.8% | 100.0% | 0.0% | 0.64 | BLUE | |
| Veiga, Victor | 24 | 69.3% | 92.7% | 100.0% | 0.0% | 1.05 | WHITE | |
| Viera, Ralph B. | 15 | 71.2% | 95.2% | 100.0% | 0.0% | 0.97 | WHITE | |
| Zalewski, John | 14 | 74.8% | 95.0% | 99.0% | 1.0% | 0.94 | WHITE | |
| Campbell, Bryan | 10 | 44.6% | 85.1% | 96.0% | 4.1% | 1.45 | YELLOW | |
| Grundza, Richard | 6 | 62.5% | 97.9% | 100.0% | 0.0% | 0.97 | WHITE | |
| Seiz, Ray | 14 | 77.8% | 97.0% | 100.0% | 0.0% | 0.87 | WHITE | |
| Terrado, Ken | 10 | 79.8% | 94.9% | 100.0% | 0.0% | 0.86 | WHITE | |

Group Criteria

| | Minimum Number of Parts Rated | Minimum Yi's Within 1 STD of mean | Minimum Yi's Within 2 STD of mean | Maximum Overall Yi STD | Group Totals | |
|--------|-------------------------------------|--|--|------------------------------|-----------------|-----|
| White | 6 | 60% | 90% | 1.20 | 19 | 61% |
| Red | 6 | 80% | 95% | 0.85 | 7 | 23% |
| Blue | 6 | 85% | 98% | 0.75 | 1 | 3% |
| Yellow | - | - | - | - | 4 | 13% |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Sequence V Varnish

| Rater | Parts Rated | -1<yi<=1 | -2<yi<=2 | -3<yi<=3 | >3 | Yi STD | Group | Group Color |
|--------------------------|-------------|----------|----------|----------|-------|--------|--------|-------------|
| Adams, Patrick | 28 | 82.1% | 100.0% | 100.0% | 0.0% | 0.75 | RED | |
| Aguirre, Nancy P | 28 | 71.4% | 100.0% | 100.0% | 0.0% | 0.52 | WHITE | |
| Avis, Steven | 28 | 82.1% | 100.0% | 100.0% | 0.0% | 0.48 | RED | |
| Barrera, Tony | 36 | 61.1% | 100.0% | 100.0% | 0.0% | 0.47 | WHITE | |
| Cales, Jonathon | 28 | 96.4% | 100.0% | 100.0% | 0.0% | 0.59 | BLUE | |
| Caproni, David | 28 | 82.1% | 96.4% | 100.0% | 0.0% | 0.79 | RED | |
| Castillo, George | 28 | 39.3% | 100.0% | 100.0% | 0.0% | 0.58 | YELLOW | |
| Cumberworth, Lee | 16 | 100.0% | 100.0% | 100.0% | 0.0% | 0.33 | BLUE | |
| Foecking, Brian | 12 | 83.3% | 100.0% | 100.0% | 0.0% | 0.73 | RED | |
| Greenland, Paul | 16 | 93.8% | 100.0% | 100.0% | 0.0% | 0.47 | BLUE | |
| Hills, Barry | 28 | 92.9% | 100.0% | 100.0% | 0.0% | 0.70 | BLUE | |
| Hurst, Kevin R. | 44 | 45.5% | 100.0% | 100.0% | 0.0% | 0.49 | YELLOW | |
| Kobrinetz, Joaquin J. | 18 | 94.4% | 100.0% | 100.0% | 0.0% | 0.53 | BLUE | |
| Kraemer, Vernon | 42 | 73.8% | 95.2% | 100.0% | 0.0% | 0.53 | WHITE | |
| Lonsway, Chris | 32 | 68.8% | 100.0% | 100.0% | 0.0% | 0.92 | WHITE | |
| Lopez, Frank | 28 | 71.4% | 100.0% | 100.0% | 0.0% | 0.88 | WHITE | |
| Lowsky, John | 36 | 16.7% | 83.3% | 100.0% | 0.0% | 0.47 | YELLOW | |
| May, Marianne | 28 | 100.0% | 100.0% | 100.0% | 0.0% | 0.45 | BLUE | |
| Millward, Glen | 4 | 75.0% | 75.0% | 100.0% | 0.0% | 1.49 | N/A | |
| Potocar, William P | 28 | 64.3% | 96.4% | 100.0% | 0.0% | 0.76 | WHITE | |
| Rodriguez, Jesus (Jesse) | 28 | 75.0% | 92.9% | 100.0% | 0.0% | 1.00 | WHITE | |
| Sanchez, Arthur | 28 | 82.1% | 100.0% | 100.0% | 0.0% | 0.66 | RED | |
| Swanson, Dennis | 24 | 62.5% | 87.5% | 100.0% | 0.0% | 0.79 | YELLOW | |
| Trevino, Bobby | 32 | 93.8% | 100.0% | 100.0% | 0.0% | 0.49 | BLUE | |
| Veiga, Victor | 44 | 40.9% | 95.5% | 97.7% | 2.3% | 1.16 | YELLOW | |
| Viera, Ralph B. | 28 | 78.6% | 100.0% | 100.0% | 0.0% | 0.61 | WHITE | |
| Zalewski, John | 28 | 67.9% | 96.4% | 100.0% | 0.0% | 0.91 | WHITE | |
| Campbell, Bryan | 4 | 50.0% | 50.0% | 75.0% | 25.0% | 1.75 | N/A | |
| Grundza, Richard | 8 | 62.5% | 100.0% | 100.0% | 0.0% | 0.73 | WHITE | |
| Seiz, Ray | 36 | 47.2% | 94.4% | 100.0% | 0.0% | 0.96 | YELLOW | |
| Terrado, Ken | 3 | 100.0% | 100.0% | 100.0% | 0.0% | 0.30 | N/A | |

Group Criteria

| | Minimum Number of Parts Rated | Minimum Yi's Within 1 STD of mean | Minimum Yi's Within 2 STD of mean | Maximum Overall Yi STD | Group Totals | |
|--------|-------------------------------------|--|--|------------------------------|-----------------|-----|
| White | 6 | 60% | 90% | 1.20 | 10 | 36% |
| Red | 6 | 80% | 95% | 0.85 | 5 | 18% |
| Blue | 6 | 85% | 98% | 0.75 | 7 | 25% |
| Yellow | - | - | - | - | 6 | 21% |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Induction & Combustion Deposits

| Rater | Parts Rated | -1<yi<=1 | -2<yi<=2 | -3<yi<=3 | >3 | Yi STD | Group | Group Color |
|--------------------------|-------------|----------|----------|----------|------|--------|--------|-------------|
| Adams, Patrick | 6 | 25.0% | 82.1% | 96.4% | 3.6% | 1.56 | YELLOW | |
| Avis, Steven | 1 | 0.0% | 100.0% | 100.0% | 0.0% | 0.20 | N/A | |
| Barrera, Tony | 13 | 35.7% | 100.0% | 100.0% | 0.0% | 0.97 | YELLOW | |
| Castillo, George | 6 | 71.4% | 92.9% | 100.0% | 0.0% | 0.94 | WHITE | |
| Cumberworth, Lee | 4 | 75.0% | 100.0% | 100.0% | 0.0% | 0.63 | N/A | |
| Foecking, Brian | 6 | 75.0% | 100.0% | 100.0% | 0.0% | 0.82 | WHITE | |
| Kobrinetz, Joaquin J. | 13 | 67.9% | 96.4% | 100.0% | 0.0% | 0.75 | WHITE | |
| Lonsway, Chris | 3 | 50.0% | 100.0% | 100.0% | 0.0% | 0.87 | N/A | |
| Lopez, Frank | 14 | 86.1% | 100.0% | 100.0% | 0.0% | 0.64 | BLUE | |
| Lowsky, John | 14 | 80.6% | 97.2% | 100.0% | 0.0% | 0.67 | RED | |
| May, Marianne | 3 | 72.2% | 100.0% | 100.0% | 0.0% | 0.72 | N/A | |
| Millward, Glen | 14 | 63.9% | 100.0% | 100.0% | 0.0% | 0.84 | WHITE | |
| Rodriguez, Jesus (Jesse) | 14 | 75.0% | 100.0% | 100.0% | 0.0% | 0.77 | WHITE | |
| Sanchez, Arthur | 14 | 69.4% | 100.0% | 100.0% | 0.0% | 0.83 | WHITE | |
| Viera, Ralph B. | 4 | 65.4% | 92.3% | 100.0% | 0.0% | 0.99 | N/A | |
| Zalewski, John | 3 | 70.8% | 100.0% | 100.0% | 0.0% | 0.47 | N/A | |
| Campbell, Bryan | 14 | 69.4% | 97.2% | 100.0% | 0.0% | 0.92 | WHITE | |
| Seiz, Ray | 14 | 72.2% | 100.0% | 100.0% | 0.0% | 0.81 | WHITE | |

Group Criteria

| | Minimum Number of Parts Rated | Minimum Yi's Within 1 STD of mean | Minimum Yi's Within 2 STD of mean | Maximum Overall Yi STD | Group Totals | |
|--------|-------------------------------------|--|--|------------------------------|-----------------|-----|
| White | 6 | 60% | 90% | 1.20 | 8 | 67% |
| Red | 6 | 80% | 95% | 0.85 | 1 | 8% |
| Blue | 6 | 85% | 98% | 0.75 | 1 | 8% |
| Yellow | - | - | - | - | 2 | 17% |

LIGHT DUTY RATING WORKSHOP (2013 APR 16)

Sequence V Sludge

| Rater | Parts Rated | -1<yi<=1 | -2<yi<=2 | -3<yi<=3 | >3 | Yi STD | Group | Group Color |
|--------------------------|-------------|----------|----------|----------|------|--------|--------|-------------|
| Adams, Patrick | 11 | 72.7% | 100.0% | 100.0% | 0.0% | 0.66 | WHITE | |
| Aguirre, Nancy P | 11 | 90.9% | 100.0% | 100.0% | 0.0% | 0.70 | BLUE | |
| Avis, Steven | 11 | 63.6% | 100.0% | 100.0% | 0.0% | 0.71 | WHITE | |
| Barrera, Tony | 11 | 90.9% | 100.0% | 100.0% | 0.0% | 0.43 | BLUE | |
| Cales, Jonathon | 11 | 90.9% | 100.0% | 100.0% | 0.0% | 0.62 | BLUE | |
| Caproni, David | 11 | 81.8% | 100.0% | 100.0% | 0.0% | 0.70 | RED | |
| Castillo, George | 11 | 54.6% | 100.0% | 100.0% | 0.0% | 1.15 | YELLOW | |
| Cumberworth, Lee | 11 | 90.9% | 100.0% | 100.0% | 0.0% | 0.60 | BLUE | |
| Foecking, Brian | 11 | 81.8% | 100.0% | 100.0% | 0.0% | 0.55 | RED | |
| Greenland, Paul | 11 | 72.7% | 100.0% | 100.0% | 0.0% | 0.61 | WHITE | |
| Hills, Barry | 11 | 54.6% | 100.0% | 100.0% | 0.0% | 0.98 | YELLOW | |
| Hurst, Kevin R. | 11 | 9.1% | 81.8% | 100.0% | 0.0% | 0.43 | YELLOW | |
| Kobrinetz, Joaquin J. | 9 | 77.8% | 100.0% | 100.0% | 0.0% | 0.93 | WHITE | |
| Kraemer, Vernon | 9 | 88.9% | 100.0% | 100.0% | 0.0% | 0.58 | BLUE | |
| Lonsway, Chris | 11 | 81.8% | 100.0% | 100.0% | 0.0% | 0.80 | RED | |
| Lopez, Frank | 11 | 63.6% | 100.0% | 100.0% | 0.0% | 0.99 | WHITE | |
| Lowsky, John | 11 | 45.5% | 81.8% | 90.9% | 9.1% | 1.01 | YELLOW | |
| May, Marianne | 11 | 90.9% | 100.0% | 100.0% | 0.0% | 0.60 | BLUE | |
| Millward, Glen | 9 | 44.4% | 88.9% | 100.0% | 0.0% | 0.85 | YELLOW | |
| Potocar, William P | 11 | 72.7% | 100.0% | 100.0% | 0.0% | 0.96 | WHITE | |
| Rodriguez, Jesus (Jesse) | 11 | 81.8% | 100.0% | 100.0% | 0.0% | 0.73 | RED | |
| Sanchez, Arthur | 11 | 72.7% | 100.0% | 100.0% | 0.0% | 0.79 | WHITE | |
| Trevino, Bobby | 11 | 90.9% | 100.0% | 100.0% | 0.0% | 0.61 | BLUE | |
| Veiga, Victor | 11 | 63.6% | 90.9% | 100.0% | 0.0% | 1.00 | WHITE | |
| Viera, Ralph B. | 11 | 72.7% | 100.0% | 100.0% | 0.0% | 0.73 | WHITE | |
| Zalewski, John | 11 | 90.9% | 100.0% | 100.0% | 0.0% | 0.59 | BLUE | |
| Campbell, Bryan | 11 | 45.5% | 63.6% | 100.0% | 0.0% | 1.66 | YELLOW | |
| Seiz, Ray | 11 | 45.5% | 100.0% | 100.0% | 0.0% | 0.95 | YELLOW | |
| Terrado, Ken | 4 | 75.0% | 100.0% | 100.0% | 0.0% | 0.49 | N/A | |

Group Criteria

| | Minimum Number of Parts Rated | Minimum Yi's Within 1 STD of mean | Minimum Yi's Within 2 STD of mean | Maximum Overall Yi STD | Group Totals | |
|--------|-------------------------------|-----------------------------------|-----------------------------------|------------------------|--------------|-----|
| White | 6 | 60% | 90% | 1.20 | 9 | 32% |
| Red | 6 | 80% | 95% | 0.85 | 4 | 14% |
| Blue | 6 | 85% | 98% | 0.75 | 8 | 29% |
| Yellow | - | - | - | - | 7 | 25% |