



## Test Monitoring Center

@ Carnegie Mellon University  
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<http://astmtmc.cmu.edu>  
412-365-1000

April 19, 2017

To Participants of the ASTM International Light Duty Rating Workshop:

The ASTM International Light Duty Rating Workshop was held on April 3-7, 2017, 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 3-7, 2017, 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 and all participants. 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 3-7, 2017

San Antonio, Texas

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## Monday, April 3, 2017

The workshop began at 1:00pm with 12 raters in attendance (see sign-in sheet) for the Session A. Michael Kasimirsky gave some opening remarks on the format of the workshop. Special thanks were given to Lucio Dominguez 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.

For 2017, a group of raters who achieved "non-yellow" color codes at the 2016 Light Duty Rating Workshop were identified. This group of raters was invited to Session A of the Light Duty Rating Workshop, which was used to set the rating targets for all parts in both sessions. Of the 13 raters identified as possible "target raters," 12 raters were in attendance in Session A.

In addition, all individual merit ratings made by the raters are limited to values in the tenths of merits, as specified in Manual 20. In the past, individual merit ratings could be entered in units down to the hundredths of merits, which is a smaller breakdown than is specified as allowable in Manual 20.

New data entry methods for carbon values were also implemented for this workshop. All carbon ratings are to be entered as character values (HC, LC) instead of the specific merit values. This should help to eliminate data entry errors when entering carbon values.

Also for this workshop, a Minimum Standard Deviation was implemented for all analyses of individual ratings. For all rated locations in this workshop, a minimum standard deviation of 0.05 merits was implemented for the calculations on those ratings. This value is based on one half of the minimum resolution of the measurement tool, which is 0.1 merits for Manual 20 ratings. Any rated location that results in a standard deviation smaller than 0.05 merits will have the minimum standard deviation used for all calculations.

In addition to the T8 fluorescent sludge lights that were recently put into use, a set of LED sludge lights were set up at this workshop for evaluation. These lights use the same fixtures as the new T8 fluorescent lights, but have been converted to LED using two CREE LED conversion kits per fixture. The raters were asked to provide their feedback on how the LED lights compare to the fluorescent lights.

At 1:35pm, the group began rating the workshop parts.

At 5:45pm, the group reviewed the pistons A1, B1, and C1 as a preliminary review.

At 6:10pm, the preliminary data review ended and the group adjourned for the day.

## Tuesday, April 4, 2017

Rating of the workshop parts by the Session A raters continued all day, with a break for lunch at 11:55am. The room was opened at 6:30am and closed at 5:50pm for the day.

# Light Duty Rating Workshop

April 3-7, 2017

San Antonio, Texas

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## **Wednesday, April 5, 2017**

The room was opened for rating at 6:30am and the Session A group finished rating the workshop parts.

At 8:10am, Session B of the workshop began with 19 raters in attendance (see sign-in sheet). Special thanks were given to Lucio Dominguez 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 changes to the workshop format for 2017 that were outlined at the start of Session A were also reviewed.

At 9:15am, the Session B raters began rating the workshop parts.

At 10:05am, the Session A raters began their final data review.

At 12:00pm, the Session A raters concluded their data review and both groups adjourned for lunch.

At 12:45pm, the Session B raters resumed rating the workshop parts, while the Session A raters, who were not remaining at the workshop to provide training, were finished with the workshop. Rating continued until 6:10pm, with some raters receiving additional training, as the need was identified by the workshop data.

## **Thursday, April 6, 2017**

Rating of the workshop parts by the Session B raters continued all day, with a break for lunch at 12:00pm. The room was opened at 6:30am and closed at 6:25pm for the day, with some raters receiving additional training, as the need was identified by the workshop data.

## **Friday, April 7, 2017**

Rating of the workshop parts by the Session B raters was completed by 9:00am and the group began the final data review of the workshop parts. The final data review was completed at 10:50am and the workshop adjourned.

## **Discussions**

### **GMOD Piston Ratings**

During Session A of the workshop, the issue of properly identifying the front and rear of the GMOD pistons was raised with the group. To avoid confusion and assure that all attendees were rating the correct locations of the piston, a blue dot was placed on the Thrust side of the bottom of the piston skirt (on an unrated area) using a paint pen. Signs were placed in each booth to indicate the meaning of these markings.

# Light Duty Rating Workshop

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San Antonio, Texas

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## **Sequence IIIH Piston Ratings**

During Session A of the workshop, the issue of properly rating Groove 1 and Land 2 of the Sequence IIIH pistons was raised with the group. These locations of the piston have a coating applied to them, which can cause some confusion in regards to what is the correct intensity value to apply to a coated area that is free of deposits. After some discussion amongst the Session A raters, it was decided to rate these coated areas, with no deposits, between 3 and 4 on the Rust/Varnish Scale. Signs were placed in each booth to note this requirement.

## **Sludge Ratings**

The sludge parts provided for the workshop were some of the most heavily coated with sludge deposits that have ever been provided for the workshop. While this might have been viewed as a positive attribute, it did have some unintended consequences as it relates to rating sludge at the workshop.

Sludge rating requires using a metal gauge to determine sludge depth for any sludge levels above the "C" level on the sludge rating scale. Using a gauge to measure sludge is not something that can be repeated by the 20+ attendees at the workshop, so these locations are measured with a gauge by one rater, with those gauged results being used by all workshop attendees.

Of the sludge parts at this workshop, the Oil Pan had nine (of 20) rating locations measured with a gauge. The Oil Pan Baffle had five locations, the Left Valve Deck had four locations, and the Right Valve Deck had two locations.

This resulted in artificially-tight rating results on the four parts with measurable sludge, due to all raters using the exact same assigned values for these locations. For example, on the Oil Pan, nine of 20 locations were defined to be identical. This removed any variability from these locations, unlike the other 11 locations on the Oil Pan. The gaugable sludge areas on the other three parts had a similar effect on the results.

***As a result, the BRW Color Codes for Sludge for this workshop are not reflective of rater performance and should not be given too much credence when compared to the results of past workshops.***

## **Minimum Standard Deviation**

For this workshop, a Minimum Standard Deviation of 0.05 merits was implemented for all Yi calculations on the individual rating locations. While all present agreed that this was a step in the right direction, several of the raters expressed a desire to see this value raised from 0.05 merits to 0.1 merits. No resolution was reached on making any changes to this value.

# Light Duty Rating Workshop

April 3-7, 2017

San Antonio, Texas

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## **Use of LED Lighting in Rating**

The possible use of LED lighting for rating applications was discussed at this workshop. Due to Federal regulations, fluorescent lighting is on its way out. To evaluate the use of LED lighting in rating, two sludge light fixtures were converted to LED using two CREE LED conversion kits per fixture. These two LED fixtures were set up in a third sludge booth so that the sludge parts could be rated using LED lighting.

The data generated using LED lighting will not be used for any color code calculations at this workshop.

## **Future Workshops**

The next Heavy Duty Rating Workshop will be held on October 2-6, 2017, at this same location.

The next Light Duty Rating Workshop will be held in April 2017.

## ***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 2017 – Session A  
Sign-In Sheet

Aguirre, Nancy P

*Nancy P Aguirre*

Barrera, Tony

*Tony Barrera*

Cumberworth, Lee

*Lee Cumberworth*

Dominguez, Lucio

*Lucio Dominguez*

Foeking, Brian

*Brian Foeking*

Hurst, Kevin R.

*Kevin R Hurst*

Kobrinetz, Joaquin J.

*Joaquin J Kobrinetz*

Lonsway, Chris

*Chris Lonsway*

Lopez, Frank

*Frank Lopez*

May, Marianne

*Marianne May*

Sanchez, Arthur

*Arthur Sanchez*

Trevino, Robert

*Robert Trevino*

Light Duty Rating Workshop 2017 – Session A

Sign-In Sheet

Aguirre, Nancy P

*Nancy P Aguirre*

Barrera, Tony

*Tony Barrera*

Cumberworth, Lee

*Lee Cumberworth*

Dominguez, Lucio

*Lucio Dominguez*

Foecking, Brian

*Brian Foecking*

Hurst, Kevin R.

*Kevin R Hurst*

Kobrinetz, Joaquin J.

*Joaquin J Kobrinetz*

Lonsway, Chris

*Chris Lonsway*

Lopez, Frank

*Frank Lopez*

May, Marianne

*Marianne May*

Sanchez, Arthur

*Arthur Sanchez*

Trevino, Robert

*Robert Trevino*



Light Duty Rating Workshop 2017 – Session A  
Sign-In Sheet

Aguirre, Nancy P

Nancy P Aguirre

Barrera, Tony

Tony C. Barrera

Cumberworth, Lee

Lee Cumberworth

Dominguez, Lucio

Lucio Dominguez

Foecking, Brian

Brian Foecking

Hurst, Kevin R.

Kevin R Hurst

Kobrinetz, Joaquin J.

Joaquin J Kobrinetz

Lonsway, Chris

Chris Lonsway

Lopez, Frank

Frank Lopez

May, Marianne

Marianne May

Sanchez, Arthur

Arthur Sanchez

Trevino, Robert

Bobby Trevino

Light Duty Rating Workshop 2017 – Session B

Sign-In Sheet

Arrizon, Richard

*Richard Arrizon*

Bolaney, Jonathan

*Jonathan Bolaney*

Cales, Jonathon

*Jonathon Cales*

Campbell, Bryan

*Bryan Campbell*

Caproni, David

*David Caproni*

Castillo, George

*George Castillo*

DeCapite, Vanessa

*Vanessa DeCapite*

Greenland, Paul

*Paul Greenland*

Hayden, Matthew

*Matthew Hayden*

King, Jennifer

*Jennifer King*

Kunk, Daniel

*Daniel Kunk*

Langford, Mike

*Mike Langford*

Li, Jie

*李洁*

Pitta, Jimmy

*Jimmy Pitta*

Rodriguez, Jesus (Jesse)

*Jesus Rodriguez*

Swanson, Dennis

*Dennis Swanson*

Terrado, Ken

*Ken Terrado*

Veiga, Victor

*Victor Veiga*

Viera, Ralph B.

*Ralph B. Viera*

Light Duty Rating Workshop 2017 – Session B

Sign-In Sheet

Arrizon, Richard

*Richard Arrizon*

Bolaney, Jonathan

*Jonathan Bolaney*

Cales, Jonathon

*Jonathon Cales*

Campbell, Bryan

*Bryan Campbell*

Caproni, David

*David Caproni*

Castillo, George

*George Castillo*

DeCapite, Vanessa

*Vanessa DeCapite*

Greenland, Paul

*Paul Greenland*

Hayden, Matthew

*Matthew Hayden*

King, Jennifer

*Jennifer King*

Kunk, Daniel

*Daniel Kunk*

Langford, Mike

*Mike Langford*

Li, Jie

*李捷*

Pitta, Jimmy

*Jimmy Pitta*

Rodriguez, Jesus (Jesse)

*Jesse Rodriguez*

Swanson, Dennis

*Dennis Swanson*

Terrado, Ken

*Ken Terrado*

Veiga, Victor

*Victor Veiga*

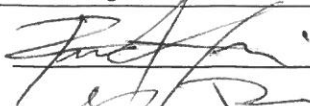
Viera, Ralph B.

*Ralph B. Viera*

Light Duty Rating Workshop 2017 – Session B

Sign-In Sheet

Arrizon, Richard



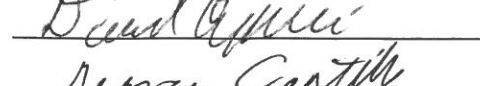
Bolaney, Jonathan



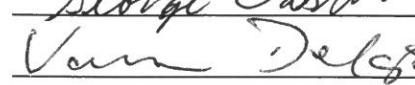
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Campbell, Bryan



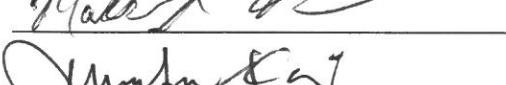
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Castillo, George



DeCapite, Vanessa



Greenland, Paul



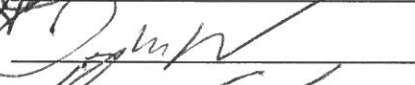
Hayden, Matthew



King, Jennifer



Kunk, Daniel



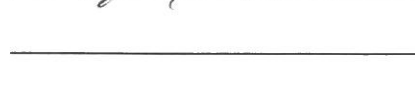
Langford, Mike



Li, Jie



Pitta, Jimmy



Rodriguez, Jesus (Jesse)



Swanson, Dennis



Terrado, Ken



Veiga, Victor



Viera, Ralph B.



## Welcome to the Light Duty Rating Workshop

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



## Light Duty Rating Workshop

April 2017



## Volunteers

- Thank you to Lucio Dominguez and the Intertek Staff for their support and for providing parts for the workshop.



## Rating Workshop Server Info

- To access the workshop server, access the local wireless network called “[depositworkshop](#)”
- The wireless network password is “[lightduty2017](#)”
- Workshop Web Address: <http://192.168.1.110/>
- Enter your *username* (printed in **red** on the summary page in your packet) in the “password” field on the entry screen. [Leave “TMC” in the other field.]
- 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 and a copy of the Room Layout are not included in the packet, but are available on the table at the front of the room.*



## Rating Manuals

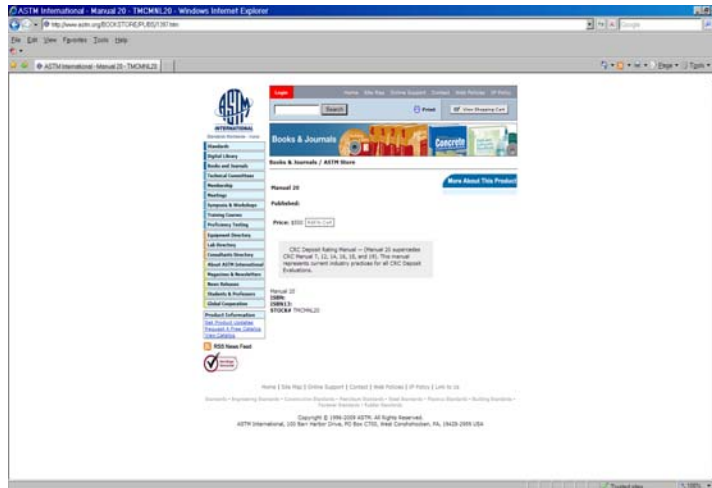
ASTM Headquarters supplies:

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

Go to : [WWW.ASTM.ORG](http://WWW.ASTM.ORG)



## Rating Manuals 20 & 21



## Workshop Format

- Light Duty Piston Deposits
  - Three “Letter Sets” of Pistons
    - Two IIIG Pistons
    - Two IIIH Pistons
    - Two GMOD Pistons
- Sequence V Varnish
  - Two Sequence VG piston sets (8 pistons per set)
  - Two Sequence VH piston sets (8 pistons per set)
  - Right & Left Rocker Cover Baffle





## Workshop Format (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 (two sets of 8 valves)
- Sludge & Debris
  - Seq. V Oil Screen



## Workshop Format (Continued)

- Data Review & Discussion



## Parts Assignments

- Two Sets of “Lettered” parts (A, B, C)
  - Four Sequence IIIG Pistons
  - Four Sequence IIIH Pistons
  - Four GMOD Pistons
- One Set of Sequence VG Pistons (8 pistons)
- One Set of Sequence VH Pistons (8 pistons)
- LED Lighting Evaluation



## 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.
- Any sludge deposit ratings of “C” depth or greater will be provided; i.e. no “gauging” of sludge will be required, **or permitted**, at the workshop.



## Parts Modifications

- No modifications to any parts is permitted during the rating workshop.
  - Do not pick at or remove any deposits present on the parts.
  - Removing deposits from a part, to determine the deposit depth (or any other reason), is not permitted.
  - Any part found to be modified in this manner will be removed from the workshop calculations.



## Use of Non-Standard Lighting

- Manual 20 lists specific requirements for the lighting color temperature and illumination level required for rating. (page 15)
- Sufficient lighting for rating is provided at each rating workstation.
- The use of non-standard lighting is not permitted.
  - No flashlights.
  - Ratings generated using non-standard lighting may be removed from the workshop results.



## Workshop Changes for 2017

- Use of “Target Rater Group” for establishing Workshop Targets.
- New Merit Scale Breakdown Limits.
- New Method for Entering Carbon Ratings.
- Implement a Minimum Standard Deviation for results calculations.
- LED Lighting Evaluation

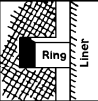
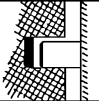
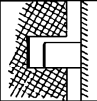


## Merit Rating Scale

- **Merit Rating** – Amount of a distress or deposit in numerical terms on a descending scale from ten (10), which represents absence of distress or deposits. (page 10)
  - Even though the scale is in whole number increments, it is permissible to assign deposit factors in tenths of a number in an effort to accurately describe the intensity level. (page 16)
- Merit rating values in increments smaller than tenths of a merit are not permitted.



## Groove Deposit Review

Typical Illustration			
Clearance Fill	100%	>25% <100%	≤25%
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, Heavy Carbon (HC) & Light Carbon (LC).



## Recording Carbon Levels

- Carbon Merit Ratings are to be recorded using text values, not numbers, in the workshop software.
  - HC Heavy Carbon (0.00 merits)
  - LC Light Carbon (0.75 merits)
  - Text values ARE CASE SENSITIVE



## Results Calculations

- Implementation of a “Minimum Standard Deviation” for all results calculations.
  - Smallest measurement increment allowed by the methods listed in Manual 20 is 0.1 merits.
  - Good engineering practice for making a measurement is to limit the measurement to one half of the smallest measurement unit on the instrument.
  - **Based upon these factors, 0.05 merits is the smallest standard deviation that will be used in all parts calculations.**
  - Values larger than this limit will be used as calculated.



## LED Lighting Evaluation

- Two fluorescent sludge light fixtures were converted to LED using two CREE LED conversion kits per fixture.
- These lights are set up in the center sludge booth.
- All sludge parts are to be rated using LED lighting, after rating with fluorescent light.
- Please move parts to the LED booth for rating and then return them to the original booth when done.
- These LED rating are *in addition* to the “conventional” ratings of the sludge parts.
- Please rate as many parts as you have time to do, so that we can evaluate this technology.



## Workshop Color Codes

- Light Duty Piston Deposits (minimum of 6 parts needed)
  - “Lettered” Piston sets
    - Six Sequence III G Pistons
    - Six Sequence III H Pistons
    - Six G MOD Pistons
- Sequence V Varnish (minimum of 24 parts needed)
  - Rocker Baffle Varnish
  - Two Sequence VG Piston Sets (8 pistons per set)
  - Two Sequence VH Piston Sets (8 pistons per set)



## Workshop Color Codes (cont.)

- Sludge (minimum of 6 parts needed)
  - Complete Sequence VG Engine sludge rating
    - Rocker Covers
    - Rocker Cover Baffles
    - Valve Deck Sludge
    - Timing Chain Cover
    - Oil Pan
    - Oil Pan Baffle
- Induction & Combustion (minimum of 6 parts needed)
  - Intake Valves
  - Piston Tops



Light Duty Rating Workshop  
Data Entry Network

<http://192.168.1.110/>





Light Duty Rating Workshop 2017

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

A1 IIIG	A2 IIIG	A3 IIIH	A4 IIIH
A5 GMOD	A6 GMOD	Piston P1-8 VG Piston Skirts	Piston Q1-8 VG Piston Skirts

**LED  
Evaluation  
Booth**

B1 IIIG	B2 IIIG	B3 IIIH	B4 IIIH
B5 GMOD	B6 GMOD	Piston R1-8 VH Piston Skirts	Piston S1-8 VH Piston Skirts

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

C1 IIIG	C2 IIIG	C3 IIIH	C4 IIIH
C5 GMOD	C6 GMOD	H1-8/I1-8 Intake Valves	PTOPS Piston Tops

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= A1 - SEQUENCE IIIG PISTON

Rated Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT
Aguirre, Nancy P	2.26	1.00	9.83	1.90	9.31	9.88	9.90
Arrizon, Richard	1.89	0.98	9.94	1.83	8.99	9.86	9.88
Barrera, Tony	1.02	0.77	9.92	1.72	9.05	9.87	9.90
Campbell, Bryan	2.88	1.23	9.81	2.16	9.43	9.89	9.90
Castillo, George	2.14	0.90	9.94	1.28	9.10	9.85	9.89
Cumberworth, Lee	1.75	0.92	9.90	1.45	8.88	9.80	9.80
DeCapite, Vanessa	1.62	0.96	9.88	1.36	9.32	9.97	9.97
Dominguez, Lucio	1.70	0.92	9.80	1.49	9.18	9.70	9.80
Foecking, Brian	1.96	0.60	9.87	2.07	9.18	9.88	9.90
Hayden, Matthew	1.14	0.98	9.85	1.99	8.91	9.80	9.80
Hurst, Kevin R.	1.43	0.86	9.71	1.86	9.19	9.80	9.80
Kobrinetz, Joaquin J.	1.94	0.91	9.90	1.35	9.22	9.90	9.93
Li, Jie	1.17	0.93	9.94	2.11	8.89	9.90	9.90
Lonsway, Chris	1.57	0.84	9.80	2.37	9.21	9.90	9.90
Lopez, Frank	1.03	0.81	9.85	1.89	9.23	9.90	9.90
May, Marianne	1.17	0.86	9.93	2.16	9.40	9.85	9.91
Pitta, Jimmy	1.74	1.05	9.95	2.17	9.30	9.89	9.90
Rodriguez, Jesus (Jesse)	1.25	0.99	9.82	1.31	9.61	9.90	9.90
Sanchez, Arthur	1.77	0.89	9.85	1.84	8.59	9.84	9.86
Sanchez, Arthur (Rerate)	1.77	0.89	9.85	1.84	8.59	9.84	9.86
Terrado, Ken	0.85	0.99	9.86	1.77	8.93	9.90	9.90
Trevino, Robert	1.77	1.09	9.88	1.53	8.91	9.88	9.92
Veiga, Victor	1.62	0.80	9.83	1.66	9.41	9.85	9.90
MAXIMUM	2.26	1.09	9.93	2.37	9.40	9.90	9.93
MINIMUM	1.02	0.60	9.71	1.35	8.59	9.70	9.80
RANGE(MAX-MIN)	1.240	0.490	0.220	1.020	0.810	0.200	0.130
MEAN	1.614	0.873	9.853	1.803	9.113	9.850	9.877
STANDARD DEVIATION	0.387	0.121	0.062	0.309	0.222	0.059	0.050
N SIZE	23.000						

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= A1 - SEQUENCE IIIG PISTON

A1 YI Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT
Aguirre, Nancy P	1.67	1.06	-0.38	0.32	0.89	0.51	0.47
Arrizon, Richard	0.71	0.89	1.39	0.09	-0.55	0.17	0.07
Barrera, Tony	-1.54	-0.85	1.07	-0.27	-0.28	0.34	0.47
Campbell, Bryan	3.27	2.97	-0.70	1.16	1.43	0.68	0.47
Castillo, George	1.36	0.23	1.39	-1.69	-0.06	0.00	0.27
Cumberworth, Lee	0.35	0.39	0.75	-1.14	-1.05	-0.85	-1.53
DeCapite, Vanessa	0.02	0.73	0.43	-1.43	0.93	2.04	1.87
Dominguez, Lucio	0.22	0.39	-0.86	-1.01	0.30	-2.55	-1.53
Foecking, Brian	0.89	-2.26	0.27	0.87	0.30	0.51	0.47
Hayden, Matthew	-1.23	0.89	-0.05	0.61	-0.91	-0.85	-1.53
Hurst, Kevin R.	-0.48	-0.10	-2.31	0.19	0.35	-0.85	-1.53
Kobrinetz, Joaquin J.	0.84	0.31	0.75	-1.46	0.48	0.85	1.07
Li, Jie	-1.15	0.48	1.39	0.99	-1.00	0.85	0.47
Lonsway, Chris	-0.11	-0.27	-0.86	1.84	0.44	0.85	0.47
Lopez, Frank	-1.51	-0.52	-0.05	0.28	0.53	0.85	0.47
May, Marianne	-1.15	-0.10	1.23	1.16	1.29	0.00	0.67
Pitta, Jimmy	0.33	1.47	1.56	1.19	0.84	0.68	0.47
Rodriguez, Jesus (Jesse)	-0.94	0.97	-0.54	-1.59	2.24	0.85	0.47
Sanchez, Arthur	0.40	0.15	-0.05	0.12	-2.35	-0.17	-0.33
Sanchez, Arthur (Rerate)	0.40	0.15	-0.05	0.12	-2.35	-0.17	-0.33
Terrado, Ken	-1.98	0.97	0.11	-0.11	-0.82	0.85	0.47
Trevino, Robert	0.40	1.80	0.43	-0.88	-0.91	0.51	0.87
Veiga, Victor	0.02	-0.60	-0.38	-0.46	1.34	0.00	0.47
MAXIMUM	1.67	-2.26	-2.31	1.84	-2.35	-2.55	-1.53
MINIMUM	-0.11	-0.10	-0.05	0.12	-0.28	0.00	-0.33
RANGE(MAX-MIN)	1.784	-2.157	-2.253	1.715	-2.069	-2.545	-1.200
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	0.981
N SIZE	23.000						

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= A2 - SEQUENCE IIIG PISTON

Rated Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT
Aguirre, Nancy P	0.75	7.25	8.78	2.84	8.86	9.56	9.65
Arrizon, Richard	0.77	6.41	9.03	2.60	8.72	9.56	9.69
Barrera, Tony	0.75	6.53	8.98	2.43	8.64	9.15	9.50
Campbell, Bryan	0.90	7.18	9.05	2.83	9.20	9.60	9.73
Castillo, George	0.75	7.51	9.06	2.68	9.61	9.46	9.55
Cumberworth, Lee	0.75	5.70	8.82	2.55	9.13	9.47	9.33
DeCapite, Vanessa	0.75	5.53	8.64	2.63	9.25	9.44	9.57
Dominguez, Lucio	0.75	7.35	9.12	2.59	9.31	9.65	9.71
Foecking, Brian	0.75	7.41	9.48	2.90	9.65	9.33	9.44
Hurst, Kevin R.	0.75	6.68	8.34	3.30	9.01	9.34	9.51
King, Jennifer	0.75	6.82	8.91	2.86	9.17	9.52	9.67
Kobrinetz, Joaquin J.	0.77	6.28	9.06	2.66	9.14	9.48	9.65
Li, Jie	0.75	6.72	8.80	2.78	9.28	9.43	9.65
Lonsway, Chris	0.75	6.90	9.21	2.90	8.45	9.38	9.61
Lopez, Frank	0.75	7.46	9.28	2.98	9.36	9.35	9.59
May, Marianne	0.75	6.87	9.55	3.89	9.60	9.48	9.62
Pitta, Jimmy	0.75	7.11	8.88	2.77	9.22	9.82	9.85
Sanchez, Arthur	0.75	8.09	9.61	3.34	9.58	9.63	9.51
Sanchez, Arthur (Rerate)	0.75	8.09	9.61	3.34	9.58	9.63	9.51
Trevino, Robert	0.75	7.53	9.19	3.36	9.29	9.72	9.80
MAXIMUM	0.77	8.09	9.61	3.89	9.65	9.72	9.80
MINIMUM	0.75	5.70	8.34	2.43	8.45	9.15	9.33
RANGE(MAX-MIN)	0.020	2.390	1.270	1.460	1.200	0.570	0.470
MEAN	0.752	7.004	9.118	2.978	9.168	9.462	9.577
STANDARD DEVIATION	0.050	0.646	0.361	0.424	0.379	0.162	0.126
N SIZE	20.000						

Part ID= A2 - SEQUENCE IIIG PISTON

A2 Y1 Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT
Aguirre, Nancy P	-0.03	0.38	-0.94	-0.33	-0.81	0.61	0.58
Arrizon, Richard	0.37	-0.92	-0.25	-0.89	-1.18	0.61	0.90
Barrera, Tony	-0.03	-0.73	-0.38	-1.29	-1.40	-1.92	-0.61
Campbell, Bryan	2.97	0.27	-0.19	-0.35	0.08	0.85	1.21
Castillo, George	-0.03	0.78	-0.16	-0.70	1.17	-0.01	-0.21
Cumberworth, Lee	-0.03	-2.02	-0.83	-1.01	-0.10	0.05	-1.95
DeCapite, Vanessa	-0.03	-2.28	-1.33	-0.82	0.22	-0.13	-0.05
Dominguez, Lucio	-0.03	0.54	0.00	-0.92	0.37	1.16	1.05
Foecking, Brian	-0.03	0.63	1.00	-0.18	1.27	-0.81	-1.08
Hurst, Kevin R.	-0.03	-0.50	-2.16	0.76	-0.42	-0.75	-0.53
King, Jennifer	-0.03	-0.29	-0.58	-0.28	0.00	0.36	0.74
Kobrinetz, Joaquin J.	0.37	-1.12	-0.16	-0.75	-0.07	0.11	0.58
Li, Jie	-0.03	-0.44	-0.88	-0.47	0.29	-0.20	0.58
Lonsway, Chris	-0.03	-0.16	0.25	-0.18	-1.90	-0.50	0.26
Lopez, Frank	-0.03	0.71	0.45	0.00	0.51	-0.69	0.11
May, Marianne	-0.03	-0.21	1.20	2.15	1.14	0.11	0.34
Pitta, Jimmy	-0.03	0.16	-0.66	-0.49	0.14	2.21	2.16
Sanchez, Arthur	-0.03	1.68	1.36	0.85	1.09	1.04	-0.53
Sanchez, Arthur (Rerate)	-0.03	1.68	1.36	0.85	1.09	1.04	-0.53
Trevino, Robert	-0.03	0.81	0.20	0.90	0.32	1.59	1.77
MAXIMUM	-0.03	-2.02	-2.16	2.15	-1.90	-1.92	-1.95
MINIMUM	-0.03	-0.16	0.00	0.00	-0.07	0.05	0.11
RANGE(MAX-MIN)	0.000	-1.857	-2.163	2.146	-1.822	-1.973	-2.056
MEAN	-0.033	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	0.050	1.000	1.000	1.000	1.000	1.000	1.000
N SIZE	20.000						

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= A3 - SEQUENCE IIIH PISTON

Rated Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	FRTOT	RRTOT
Aguirre, Nancy P	2.38	1.19	6.88	3.40	0.82	9.80	9.78
Barrera, Tony	1.88	0.82	6.53	3.35	0.77	9.70	9.51
Cales, Jonathon	2.67	0.89	6.58	3.10	0.81	9.65	9.62
Campbell, Bryan	1.35	2.06	7.59	3.06	0.85	9.68	9.80
Caproni, David	2.58	0.81	6.39	2.86	0.81	9.64	9.42
Castillo, George	2.75	1.36	6.80	3.48	0.80	9.69	9.54
Cumberworth, Lee	2.35	1.10	6.03	2.88	0.81	9.40	9.31
Dominguez, Lucio	2.10	0.99	6.23	3.34	0.88	9.64	9.62
Foecking, Brian	2.13	1.26	5.74	2.90	0.75	9.60	9.35
Hayden, Matthew	2.51	1.13	6.79	3.39	0.92	9.67	9.58
Hurst, Kevin R.	2.23	0.81	6.02	2.94	0.81	9.39	9.59
Kobrinetz, Joaquin J.	2.02	1.31	6.23	3.60	0.79	9.36	9.24
Li, Jie	2.21	0.90	5.54	2.75	0.80	9.81	9.66
Lonsway, Chris	2.37	0.93	6.46	3.25	0.75	9.64	9.63
Lopez, Frank	0.75	0.88	6.82	3.02	0.72	9.56	9.46
May, Marianne	2.32	0.89	6.47	4.18	0.79	9.67	9.54
Pitta, Jimmy	2.36	1.19	6.40	3.71	0.75	9.66	9.85
Sanchez, Arthur	2.25	0.93	6.46	3.56	0.77	9.70	9.51
Sanchez, Arthur (Rerate)	2.25	0.93	6.46	3.56	0.77	9.70	9.51
Terrado, Ken	2.17	0.75	6.28	3.37	0.74	9.79	9.68
Trevino, Robert	1.92	1.11	6.90	3.56	0.79	9.80	9.73
MAXIMUM	2.38	1.31	6.90	4.18	0.88	9.80	9.78
MINIMUM	0.75	0.81	5.74	2.88	0.72	9.36	9.24
RANGE(MAX-MIN)	1.630	0.500	1.160	1.300	0.160	0.440	0.540
MEAN	2.058	1.018	6.398	3.332	0.788	9.605	9.523
STANDARD DEVIATION	0.446	0.171	0.364	0.375	0.050	0.151	0.164
N SIZE	21.000						

Part ID= A3 - SEQUENCE IIIH PISTON

A3 YI Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	FRTOT	RRTOT
Aguirre, Nancy P	0.72	1.00	1.32	0.18	0.65	1.29	1.57
Barrera, Tony	-0.40	-1.16	0.36	0.05	-0.35	0.63	-0.08
Cales, Jonathon	1.37	-0.75	0.50	-0.62	0.45	0.30	0.60
Campbell, Bryan	-1.59	6.08	3.27	-0.72	1.25	0.50	1.70
Caproni, David	1.17	-1.22	-0.02	-1.26	0.45	0.23	-0.63
Castillo, George	1.55	1.99	1.10	0.40	0.25	0.56	0.11
Cumberworth, Lee	0.65	0.48	-1.01	-1.20	0.45	-1.36	-1.30
Dominguez, Lucio	0.09	-0.17	-0.46	0.02	1.85	0.23	0.60
Foecking, Brian	0.16	1.41	-1.80	-1.15	-0.75	-0.03	-1.05
Hayden, Matthew	1.01	0.65	1.08	0.16	2.65	0.43	0.35
Hurst, Kevin R.	0.38	-1.22	-1.04	-1.04	0.45	-1.42	0.41
Kobrinetz, Joaquin J.	-0.09	1.70	-0.46	0.72	0.05	-1.62	-1.73
Li, Jie	0.34	-0.69	-2.35	-1.55	0.25	1.36	0.84
Lonsway, Chris	0.70	-0.52	0.17	-0.22	-0.75	0.23	0.66
Lopez, Frank	-2.93	-0.81	1.16	-0.83	-1.35	-0.30	-0.38
May, Marianne	0.59	-0.75	0.20	2.26	0.05	0.43	0.11
Pitta, Jimmy	0.68	1.00	0.01	1.01	-0.75	0.36	2.00
Sanchez, Arthur	0.43	-0.52	0.17	0.61	-0.35	0.63	-0.08
Sanchez, Arthur (Rerate)	0.43	-0.52	0.17	0.61	-0.35	0.63	-0.08
Terrado, Ken	0.25	-1.57	-0.32	0.10	-0.95	1.22	0.96
Trevino, Robert	-0.31	0.54	1.38	0.61	0.05	1.29	1.27
MAXIMUM	-2.93	1.70	-1.80	2.26	1.85	-1.62	-1.73
MINIMUM	-0.09	-0.17	0.17	0.02	0.05	-0.03	-0.08
RANGE(MAX-MIN)	-2.845	1.868	-1.976	2.239	1.800	-1.589	-1.651
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	0.823	1.000	1.000
N SIZE	21.000						

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= A4 - SEQUENCE IIIH PISTON

Rated Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	FRTOT	RRTOT
Aguirre, Nancy P	0.74	2.84	9.45	1.39	9.18	9.89	9.83
Barrera, Tony	0.73	3.06	9.71	1.21	9.12	9.83	9.72
Cales, Jonathon	0.71	2.82	9.71	1.48	9.03	9.80	9.75
Campbell, Bryan	0.82	3.83	9.60	1.27	9.57	9.80	9.89
Caproni, David	0.73	3.49	9.44	1.55	9.32	9.90	9.80
Castillo, George	0.66	3.10	9.95	1.47	9.40	9.98	9.72
Cumberworth, Lee	0.71	2.31	9.52	1.36	9.11	9.89	9.66
DeCapite, Vanessa	0.65	2.53	9.66	1.40	9.36	9.76	9.99
Dominguez, Lucio	0.69	2.85	9.52	1.36	9.21	9.83	9.58
Foecking, Brian	0.71	3.36	9.88	1.11	9.34	9.90	9.56
Hayden, Matthew	0.71	2.44	9.64	1.81	9.51	9.89	9.74
Hurst, Kevin R.	0.72	2.52	9.53	1.38	9.20	9.74	9.80
Kobrinetz, Joaquin J.	0.70	2.75	9.62	1.20	9.45	9.90	9.57
Li, Jie	0.72	3.36	9.70	1.31	9.12	10.00	9.81
Lonsway, Chris	0.64	2.94	9.50	1.46	9.01	9.90	9.70
Lopez, Frank	0.74	2.57	9.65	1.23	9.43	9.74	9.90
May, Marianne	0.68	3.42	9.71	1.54	9.39	9.96	9.79
Pitta, Jimmy	0.70	2.78	9.84	1.46	9.20	9.88	9.90
Sanchez, Arthur	0.68	2.88	9.88	1.60	9.38	9.90	9.81
Sanchez, Arthur (Rerate)	0.68	2.88	9.88	1.60	9.38	9.90	9.81
Trevino, Robert	0.72	2.90	9.73	1.36	9.30	9.96	9.83
Veiga, Victor	0.71	2.42	9.78	1.32	9.53	9.70	9.90
MAXIMUM	0.74	3.42	9.88	1.60	9.45	9.96	9.90
MINIMUM	0.64	2.31	9.45	1.11	9.01	9.74	9.56
RANGE(MAX-MIN)	0.100	1.110	0.430	0.490	0.440	0.220	0.340
MEAN	0.705	2.867	9.642	1.350	9.260	9.870	9.729
STANDARD DEVIATION	0.050	0.320	0.145	0.144	0.142	0.072	0.115
N SIZE	22.000						

Part ID= A4 - SEQUENCE IIIH PISTON

A4 YI Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	FRTOT	RRTOT
Aguirre, Nancy P	0.70	-0.08	-1.33	0.28	-0.56	0.28	0.87
Barrera, Tony	0.50	0.60	0.47	-0.97	-0.99	-0.55	-0.08
Cales, Jonathon	0.10	-0.15	0.47	0.90	-1.62	-0.97	0.18
Campbell, Bryan	2.30	3.01	-0.29	-0.56	2.19	-0.97	1.39
Caproni, David	0.50	1.95	-1.39	1.39	0.42	0.41	0.61
Castillo, George	-0.90	0.73	2.13	0.83	0.99	1.52	-0.08
Cumberworth, Lee	0.10	-1.74	-0.84	0.07	-1.06	0.28	-0.60
DeCapite, Vanessa	-1.10	-1.05	0.13	0.35	0.70	-1.52	2.26
Dominguez, Lucio	-0.30	-0.05	-0.84	0.07	-0.35	-0.55	-1.29
Foecking, Brian	0.10	1.54	1.65	-1.67	0.56	0.41	-1.46
Hayden, Matthew	0.10	-1.33	-0.01	3.20	1.76	0.28	0.09
Hurst, Kevin R.	0.30	-1.08	-0.77	0.21	-0.42	-1.80	0.61
Kobrinetz, Joaquin J.	-0.10	-0.36	-0.15	-1.04	1.34	0.41	-1.38
Li, Jie	0.30	1.54	0.40	-0.28	-0.99	1.80	0.70
Lonsway, Chris	-1.30	0.23	-0.98	0.76	-1.76	0.41	-0.25
Lopez, Frank	0.70	-0.93	0.06	-0.83	1.20	-1.80	1.48
May, Marianne	-0.50	1.73	0.47	1.32	0.92	1.24	0.53
Pitta, Jimmy	-0.10	-0.27	1.37	0.76	-0.42	0.14	1.48
Sanchez, Arthur	-0.50	0.04	1.65	1.74	0.85	0.41	0.70
Sanchez, Arthur (Rerate)	-0.50	0.04	1.65	1.74	0.85	0.41	0.70
Trevino, Robert	0.30	0.10	0.61	0.07	0.28	1.24	0.87
Veiga, Victor	0.10	-1.40	0.96	-0.21	1.90	-2.35	1.48
MAXIMUM	-1.30	-1.74	1.65	1.74	-1.76	-1.80	1.48
MINIMUM	0.10	0.04	0.06	0.07	0.28	0.28	-0.08
RANGE(MAX-MIN)	-1.400	-1.781	1.590	1.669	-2.044	-2.073	1.559
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	0.582	1.000	1.000	1.000	1.000	1.000	1.000
N SIZE	22.000						

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= A5 - GMOD PISTON

Rated Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT
Aguirre, Nancy P	0.82	3.54	9.71	0.75	9.19	9.44	9.65
Arrizon, Richard	0.81	2.81	9.82	0.75	8.95	9.60	9.72
Barrera, Tony	0.75	3.24	9.57	0.82	8.92	9.28	9.66
Bolaney, Jonathan	0.75	3.50	9.80	0.84	9.08	8.47	9.30
Castillo, George	0.84	3.44	9.96	0.75	9.26	9.32	9.51
Cumberworth, Lee	0.80	3.16	9.68	0.84	8.95	9.09	9.41
DeCapite, Vanessa	0.75	2.79	9.81	0.83	8.97	8.60	9.19
Dominguez, Lucio	0.84	2.92	9.74	0.83	8.94	8.96	9.47
Foecking, Brian	0.75	3.71	9.87	0.75	9.60	8.95	9.35
Hayden, Matthew	0.75	3.09	9.72	0.84	9.02	8.97	9.46
Hurst, Kevin R.	0.75	2.24	9.50	0.75	9.07	9.27	9.47
Kobrinetz, Joaquin J.	0.84	3.19	9.75	0.75	9.09	9.16	9.49
Li, Jie	0.76	3.23	9.94	0.78	8.99	8.75	9.44
Lonsway, Chris	0.81	3.25	9.80	0.84	8.71	9.01	9.35
Lopez, Frank	0.75	2.87	9.79	0.75	9.15	8.72	9.30
May, Marianne	0.75	3.25	9.86	0.75	9.53	8.93	9.50
Sanchez, Arthur	0.82	4.10	9.87	0.71	9.17	8.86	9.38
Sanchez, Arthur (Rerate)	0.82	4.10	9.87	0.71	9.17	8.86	9.38
Trevino, Robert	0.82	3.69	9.84	0.75	9.04	9.50	9.75
Veiga, Victor	0.75	3.16	9.85	0.84	9.30	8.90	9.38
MAXIMUM	0.84	4.10	9.87	0.84	9.60	9.50	9.75
MINIMUM	0.75	2.24	9.50	0.71	8.71	8.72	9.30
RANGE(MAX-MIN)	0.090	1.860	0.370	0.130	0.890	0.780	0.450
MEAN	0.792	3.263	9.748	0.774	9.113	9.098	9.482
STANDARD DEVIATION	0.050	0.476	0.119	0.050	0.250	0.238	0.140
N SIZE	20.000						

Part ID= A5 - GMOD PISTON

A5 Y1 Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT
Aguirre, Nancy P	0.57	0.58	-0.32	-0.48	0.31	1.44	1.20
Arrizon, Richard	0.37	-0.95	0.60	-0.48	-0.65	2.11	1.70
Barrera, Tony	-0.83	-0.05	-1.50	0.92	-0.77	0.77	1.27
Bolaney, Jonathan	-0.83	0.50	0.44	1.32	-0.13	-2.64	-1.30
Castillo, George	0.97	0.37	1.79	-0.48	0.59	0.94	0.20
Cumberworth, Lee	0.17	-0.22	-0.58	1.32	-0.65	-0.03	-0.51
DeCapite, Vanessa	-0.83	-0.99	0.52	1.12	-0.57	-2.09	-2.08
Dominguez, Lucio	0.97	-0.72	-0.07	1.12	-0.69	-0.58	-0.08
Foecking, Brian	-0.83	0.94	1.03	-0.48	1.95	-0.62	-0.94
Hayden, Matthew	-0.83	-0.36	-0.24	1.32	-0.37	-0.54	-0.15
Hurst, Kevin R.	-0.83	-2.15	-2.09	-0.48	-0.17	0.73	-0.08
Kobrinetz, Joaquin J.	0.97	-0.15	0.01	-0.48	-0.09	0.26	0.06
Li, Jie	-0.63	-0.07	1.62	0.12	-0.49	-1.46	-0.30
Lonsway, Chris	0.37	-0.03	0.44	1.32	-1.62	-0.37	-0.94
Lopez, Frank	-0.83	-0.83	0.35	-0.48	0.15	-1.59	-1.30
May, Marianne	-0.83	-0.03	0.94	-0.48	1.67	-0.70	0.13
Sanchez, Arthur	0.57	1.76	1.03	-1.28	0.23	-1.00	-0.73
Sanchez, Arthur (Rerate)	0.57	1.76	1.03	-1.28	0.23	-1.00	-0.73
Trevino, Robert	0.57	0.90	0.77	-0.48	-0.29	1.69	1.92
Veiga, Victor	-0.83	-0.22	0.86	1.32	0.75	-0.83	-0.73
MAXIMUM	0.97	-2.15	-2.09	1.32	1.95	1.69	1.92
MINIMUM	0.17	-0.03	0.01	-0.48	-0.09	-0.03	0.06
RANGE(MAX-MIN)	0.800	-2.121	-2.109	1.800	2.043	1.725	1.856
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	0.767	1.000	1.000	0.896	1.000	1.000	1.000
N SIZE	20.000						

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= A6 - GMOD PISTON

Rated Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT
Aguirre, Nancy P	2.36	6.98	9.47	0.75	9.12	9.67	9.90
Arrizon, Richard	1.70	6.49	9.70	0.83	8.62	9.81	9.90
Barrera, Tony	1.46	6.49	9.48	0.75	8.99	9.64	9.99
Castillo, George	2.42	6.83	9.92	0.75	9.22	9.71	9.99
Cumberworth, Lee	1.88	5.80	9.62	0.84	8.95	9.65	9.90
DeCapite, Vanessa	1.65	6.24	9.43	0.90	9.03	9.63	9.95
Dominguez, Lucio	2.06	6.05	9.42	0.83	8.93	9.69	9.90
Foecking, Brian	2.28	6.32	9.84	0.75	9.05	9.55	9.90
Hayden, Matthew	2.20	6.11	9.55	0.84	8.99	9.79	9.90
Hurst, Kevin R.	1.06	5.75	9.35	0.75	8.78	9.60	9.80
Kobrinetz, Joaquin J.	1.74	6.20	9.39	0.75	9.14	9.69	9.94
Li, Jie	1.24	5.90	9.51	0.75	8.62	9.61	9.90
Lonsway, Chris	2.10	6.52	9.60	0.84	8.73	9.59	9.90
Lopez, Frank	1.22	6.39	9.63	0.90	9.24	9.46	9.90
May, Marianne	1.48	6.30	9.54	0.75	9.37	9.66	9.98
Sanchez, Arthur	1.78	6.24	9.79	0.73	8.90	9.77	10.00
Sanchez, Arthur (Rerate)	1.78	6.24	9.79	0.73	8.90	9.77	10.00
Terrado, Ken	1.37	6.01	9.57	0.75	8.81	9.57	9.90
Trevino, Robert	1.95	6.80	9.70	0.75	9.10	9.58	9.92
Veiga, Victor	1.46	6.83	9.77	0.75	9.21	9.67	9.90
MAXIMUM	2.36	6.98	9.84	0.90	9.37	9.77	10.00
MINIMUM	1.06	5.75	9.35	0.73	8.73	9.46	9.80
RANGE(MAX-MIN)	1.300	1.230	0.490	0.170	0.640	0.310	0.200
MEAN	1.781	6.320	9.569	0.783	9.025	9.629	9.919
STANDARD DEVIATION	0.408	0.360	0.156	0.055	0.184	0.080	0.054
N SIZE	20.000						

Part ID= A6 - GMOD PISTON

A6 Y1 Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT
Aguirre, Nancy P	1.42	1.83	-0.64	-0.59	0.52	0.51	-0.35
Arrizon, Richard	-0.20	0.47	0.84	0.87	-2.20	2.27	-0.35
Barrera, Tony	-0.79	0.47	-0.57	-0.59	-0.19	0.14	1.31
Castillo, George	1.57	1.41	2.25	-0.59	1.06	1.01	1.31
Cumberworth, Lee	0.24	-1.44	0.33	1.05	-0.41	0.26	-0.35
DeCapite, Vanessa	-0.32	-0.22	-0.89	2.15	0.03	0.01	0.57
Dominguez, Lucio	0.68	-0.75	-0.96	0.87	-0.52	0.76	-0.35
Foecking, Brian	1.22	0.00	1.74	-0.59	0.14	-0.99	-0.35
Hayden, Matthew	1.03	-0.58	-0.12	1.05	-0.19	2.01	-0.35
Hurst, Kevin R.	-1.77	-1.58	-1.41	-0.59	-1.33	-0.37	-2.21
Kobrinetz, Joaquin J.	-0.10	-0.33	-1.15	-0.59	0.63	0.76	0.39
Li, Jie	-1.33	-1.17	-0.38	-0.59	-2.20	-0.24	-0.35
Lonsway, Chris	0.78	0.55	0.20	1.05	-1.60	-0.49	-0.35
Lopez, Frank	-1.37	0.19	0.39	2.15	1.17	-2.12	-0.35
May, Marianne	-0.74	-0.06	-0.19	-0.59	1.88	0.39	1.13
Sanchez, Arthur	0.00	-0.22	1.42	-0.96	-0.68	1.76	1.50
Sanchez, Arthur (Rerate)	0.00	-0.22	1.42	-0.96	-0.68	1.76	1.50
Terrado, Ken	-1.01	-0.86	0.01	-0.59	-1.17	-0.74	-0.35
Trevino, Robert	0.41	1.33	0.84	-0.59	0.41	-0.62	0.02
Veiga, Victor	-0.79	1.41	1.29	-0.59	1.01	0.51	-0.35
MAXIMUM	-1.77	1.83	1.74	2.15	1.88	-2.12	-2.21
MINIMUM	0.00	0.00	-0.19	-0.59	0.14	0.14	0.02
RANGE(MAX-MIN)	-1.764	1.831	1.924	2.746	1.739	-2.255	-2.222
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
N SIZE	20.000						



## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= B1 - SEQUENCE IIIG PISTON

Rated Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT
Aguirre, Nancy P	7.60	0.75	8.76	2.24	2.13	9.67	9.89
Arrizon, Richard	4.57	0.75	8.99	2.38	1.89	9.62	9.79
Barrera, Tony	5.32	0.75	8.82	2.33	1.64	9.50	9.89
Bolaney, Jonathan	7.05	0.75	8.94	2.88	1.53	9.58	9.85
Campbell, Bryan	7.51	0.75	8.81	3.03	2.22	9.77	9.82
Cumberworth, Lee	6.40	0.75	8.51	1.96	1.60	9.63	9.80
DeCapite, Vanessa	5.09	0.74	8.57	2.97	1.84	9.63	9.98
Dominguez, Lucio	6.87	0.75	8.64	2.22	1.54	9.45	9.80
Foecking, Brian	5.64	0.68	9.24	2.49	1.90	9.40	9.90
Greenland, Paul	6.77	0.64	8.90	1.78	2.40	9.60	9.90
Hurst, Kevin R.	6.63	0.75	8.77	2.16	1.51	9.56	9.70
King, Jennifer	5.99	0.75	8.63	2.28	1.77	9.68	9.80
Kobrinetz, Joaquin J.	6.15	0.75	8.85	2.18	2.02	9.54	9.85
Kunk, Daniel	5.29	0.75	8.93	2.43	2.06	9.43	9.87
Langford, Mike	5.96	0.66	8.56	2.48	2.44	9.30	9.72
Li, Jie	3.74	0.75	8.85	1.76	2.39	9.31	9.80
Lonsway, Chris	4.68	0.75	9.05	2.69	1.84	9.50	9.90
Lopez, Frank	5.61	0.75	8.82	2.50	1.63	9.39	9.90
May, Marianne	5.32	0.75	9.31	2.19	2.10	9.65	9.94
Pitta, Jimmy	5.59	0.75	8.48	1.69	2.24	9.86	9.90
Rodriguez, Jesus (Jesse)	5.47	0.75	8.95	1.97	1.88	9.66	9.90
Sanchez, Arthur	6.38	0.75	9.19	1.95	2.35	9.32	9.92
Sanchez, Arthur (Rerate)	6.38	0.75	9.19	1.95	2.35	9.32	9.92
Swanson, Dennis	5.29	0.76	8.47	1.84	2.14	9.60	9.95
Trevino, Robert	6.37	0.75	8.90	1.83	2.48	9.58	9.94
Viera, Ralph B.	6.69	0.75	8.84	2.24	2.15	9.52	9.99
MAXIMUM	7.60	0.75	9.31	2.69	2.48	9.67	9.94
MINIMUM	4.68	0.68	8.51	1.83	1.51	9.32	9.70
RANGE(MAX-MIN)	2.920	0.070	0.800	0.860	0.970	0.350	0.240
MEAN	6.081	0.744	8.905	2.228	1.895	9.516	9.869
STANDARD DEVIATION	0.800	0.050	0.245	0.249	0.325	0.110	0.071
N SIZE	26.000						

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= B1 - SEQUENCE IIIG PISTON

B1 Yi Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT
Aguirre, Nancy P	1.90	0.12	-0.59	0.05	0.72	1.40	0.29
Arrizon, Richard	-1.89	0.12	0.35	0.61	-0.02	0.94	-1.12
Barrera, Tony	-0.95	0.12	-0.35	0.41	-0.78	-0.14	0.29
Bolaney, Jonathan	1.21	0.12	0.14	2.62	-1.12	0.58	-0.27
Campbell, Bryan	1.79	0.12	-0.39	3.22	1.00	2.30	-0.70
Cumberworth, Lee	0.40	0.12	-1.61	-1.08	-0.91	1.03	-0.98
DeCapite, Vanessa	-1.24	-0.08	-1.37	2.98	-0.17	1.03	1.57
Dominguez, Lucio	0.99	0.12	-1.08	-0.03	-1.09	-0.60	-0.98
Foecking, Brian	-0.55	-1.28	1.37	1.05	0.02	-1.05	0.44
Greenland, Paul	0.86	-2.08	-0.02	-1.80	1.55	0.76	0.44
Hurst, Kevin R.	0.69	0.12	-0.55	-0.27	-1.18	0.40	-2.39
King, Jennifer	-0.11	0.12	-1.12	0.21	-0.38	1.49	-0.98
Kobrinetz, Joaquin J.	0.09	0.12	-0.22	-0.19	0.38	0.22	-0.27
Kunk, Daniel	-0.99	0.12	0.10	0.81	0.51	-0.78	0.01
Langford, Mike	-0.15	-1.68	-1.41	1.01	1.68	-1.96	-2.11
Li, Jie	-2.92	0.12	-0.22	-1.88	1.52	-1.87	-0.98
Lonsway, Chris	-1.75	0.12	0.59	1.85	-0.17	-0.14	0.44
Lopez, Frank	-0.59	0.12	-0.35	1.09	-0.82	-1.14	0.44
May, Marianne	-0.95	0.12	1.65	-0.15	0.63	1.22	1.00
Pitta, Jimmy	-0.61	0.12	-1.73	-2.16	1.06	3.12	0.44
Rodriguez, Jesus (Jesse)	-0.76	0.12	0.18	-1.04	-0.05	1.31	0.44
Sanchez, Arthur	0.37	0.12	1.16	-1.12	1.40	-1.78	0.72
Sanchez, Arthur (Rerate)	0.37	0.12	1.16	-1.12	1.40	-1.78	0.72
Swanson, Dennis	-0.99	0.32	-1.77	-1.56	0.75	0.76	1.14
Trevino, Robert	0.36	0.12	-0.02	-1.60	1.80	0.58	1.00
Viera, Ralph B.	0.76	0.12	-0.27	0.05	0.78	0.04	1.71
MAXIMUM	1.90	-1.28	1.65	1.85	1.80	-1.78	-2.39
MINIMUM	0.09	0.12	-0.02	-0.03	0.02	-0.14	-0.27
RANGE(MAX-MIN)	1.812	-1.400	1.672	1.887	1.785	-1.632	-2.123
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	1.000	0.404	1.000	1.000	1.000	1.000	1.000
N SIZE	26.000						

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= B2 - SEQUENCE IIIG PISTON

Rated Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	
Aguirre, Nancy P	4.05	1.23	9.32	0.87	4.07	9.46	9.74	
Barrera, Tony	2.87	1.04	9.43	0.82	3.13	9.22	9.76	
Bolaney, Jonathan	4.43	1.27	9.66	0.89	3.01	9.06	9.64	
Campbell, Bryan	3.74	1.07	9.69	0.78	2.70	9.78	9.83	
Cumberworth, Lee	3.08	1.10	9.28	0.82	2.82	9.53	9.80	
DeCapite, Vanessa	3.18	1.10	9.20	0.88	3.35	9.54	9.85	
Dominguez, Lucio	3.39	1.20	9.41	0.90	3.40	9.48	9.61	
Foecking, Brian	4.11	1.10	9.80	0.90	3.56	9.51	9.71	
Greenland, Paul	3.69	1.40	9.67	1.00	4.04	9.65	9.75	
Hurst, Kevin R.	3.39	1.37	9.50	0.98	3.09	9.48	9.60	
King, Jennifer	3.87	1.15	9.45	0.92	3.18	9.55	9.74	
Kobrinetz, Joaquin J.	3.29	1.24	9.52	0.78	3.81	9.46	9.79	
Kunk, Daniel	2.87	1.39	9.65	0.90	3.99	9.19	9.54	
Langford, Mike	2.97	1.16	9.51	1.04	3.47	9.50	9.75	
Li, Jie	2.57	1.23	9.35	0.84	4.00	9.62	9.76	
Lonsway, Chris	4.38	1.33	9.50	0.96	3.53	9.22	9.68	
Lopez, Frank	2.80	0.97	9.34	0.83	3.65	9.14	9.59	
May, Marianne	3.20	1.07	9.69	0.86	4.45	9.58	9.83	
Pitta, Jimmy	3.03	1.07	9.62	0.93	3.64	9.80	9.87	
Rodriguez, Jesus (Jesse)	3.63	1.15	9.56	0.83	3.13	9.61	9.79	
Sanchez, Arthur	4.48	1.49	9.84	0.73	3.68	9.64	9.78	
Sanchez, Arthur (Rerate)	4.48	1.49	9.84	0.73	3.68	9.64	9.78	
Swanson, Dennis	2.90	1.07	9.14	0.89	2.84	9.44	9.69	
Trevino, Robert	3.35	1.35	9.70	0.83	4.34	9.62	9.79	
Viera, Ralph B.	3.92	1.37	9.57	1.02	4.75	9.64	9.91	
MAXIMUM	4.48	1.49	9.84	0.98	4.45	9.64	9.83	
MINIMUM	2.80	0.97	9.28	0.73	2.82	9.14	9.59	
RANGE(MAX-MIN)	1.680	0.520	0.560	0.250	1.630	0.500	0.240	
MEAN	3.533	1.208	9.528	0.857	3.628	9.445	9.723	
STANDARD DEVIATION	0.575	0.157	0.189	0.071	0.493	0.164	0.085	
N SIZE	25.000							

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= B2 - SEQUENCE IIIG PISTON

B2 Yi Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	
Aguirre, Nancy P	0.90	0.14	-1.10	0.19	0.90	0.09	0.20	
Barrera, Tony	-1.15	-1.07	-0.52	-0.51	-1.01	-1.37	0.43	
Bolaney, Jonathan	1.56	0.40	0.70	0.47	-1.25	-2.35	-0.98	
Campbell, Bryan	0.36	-0.88	0.86	-1.08	-1.88	2.04	1.26	
Cumberworth, Lee	-0.79	-0.69	-1.31	-0.51	-1.64	0.52	0.91	
DeCapite, Vanessa	-0.61	-0.69	-1.73	0.33	-0.56	0.58	1.50	
Dominguez, Lucio	-0.25	-0.05	-0.62	0.61	-0.46	0.21	-1.34	
Foecking, Brian	1.00	-0.69	1.44	0.61	-0.14	0.40	-0.16	
Greenland, Paul	0.27	1.23	0.75	2.01	0.84	1.25	0.31	
Hurst, Kevin R.	-0.25	1.04	-0.15	1.73	-1.09	0.21	-1.46	
King, Jennifer	0.59	-0.37	-0.41	0.89	-0.91	0.64	0.20	
Kobrinetz, Joaquin J.	-0.42	0.21	-0.04	-1.08	0.37	0.09	0.79	
Kunk, Daniel	-1.15	1.17	0.65	0.61	0.74	-1.56	-2.17	
Langford, Mike	-0.98	-0.30	-0.09	2.57	-0.32	0.34	0.31	
Li, Jie	-1.67	0.14	-0.94	-0.23	0.76	1.07	0.43	
Lonsway, Chris	1.47	0.78	-0.15	1.45	-0.20	-1.37	-0.51	
Lopez, Frank	-1.27	-1.52	-0.99	-0.37	0.05	-1.86	-1.57	
May, Marianne	-0.58	-0.88	0.86	0.05	1.67	0.82	1.26	
Pitta, Jimmy	-0.87	-0.88	0.49	1.03	0.03	2.17	1.73	
Rodriguez, Jesus (Jesse)	0.17	-0.37	0.17	-0.37	-1.01	1.01	0.79	
Sanchez, Arthur	1.65	1.80	1.65	-1.78	0.11	1.19	0.67	
Sanchez, Arthur (Rerate)	1.65	1.80	1.65	-1.78	0.11	1.19	0.67	
Swanson, Dennis	-1.10	-0.88	-2.05	0.47	-1.60	-0.03	-0.39	
Trevino, Robert	-0.32	0.91	0.91	-0.37	1.45	1.07	0.79	
Viera, Ralph B.	0.67	1.04	0.23	2.29	2.28	1.19	2.20	
MAXIMUM	1.65	1.80	1.65	-1.78	1.67	-1.86	-1.57	
MINIMUM	-0.25	-0.05	-0.04	0.05	0.05	0.09	-0.16	
RANGE(MAX-MIN)	1.895	1.852	1.694	-1.824	1.624	-1.952	-1.417	
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	
N SIZE	25.000							

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= B3 - SEQUENCE IIIH PISTON

Rated Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	FRTOT	RRTOT
Aguirre, Nancy P	2.07	1.11	8.24	3.56	1.53	9.90	9.82
Arrizon, Richard	1.60	1.04	7.93	3.35	1.49	9.99	9.75
Barrera, Tony	2.10	1.00	7.90	4.12	1.51	9.86	9.67
Cales, Jonathon	1.85	1.21	8.05	3.43	1.36	9.85	9.73
Caproni, David	2.73	1.11	8.17	4.17	1.67	9.90	9.80
Cumberworth, Lee	1.86	0.89	7.91	3.42	1.27	9.63	9.99
DeCapite, Vanessa	1.39	1.05	7.91	3.47	1.41	9.74	9.90
Dominguez, Lucio	1.81	0.99	7.87	3.69	1.52	9.88	9.81
Foecking, Brian	1.69	1.04	7.76	3.31	1.33	9.88	9.51
Hurst, Kevin R.	1.42	0.90	7.66	3.53	1.49	9.66	9.80
King, Jennifer	1.20	1.00	8.19	3.80	1.32	9.99	9.83
Kobrinetz, Joaquin J.	1.53	1.03	8.11	3.93	1.50	9.88	9.40
Langford, Mike	1.65	1.13	7.97	3.16	1.48	9.78	9.38
Li, Jie	1.72	0.91	8.48	3.90	1.63	9.98	9.83
Lonsway, Chris	1.70	0.96	8.06	3.66	1.35	9.89	9.56
Lopez, Frank	0.75	0.77	8.01	3.11	1.34	9.86	9.73
May, Marianne	1.72	0.92	8.42	4.45	1.72	9.98	9.74
Pitta, Jimmy	1.16	1.12	8.06	3.92	1.49	9.86	10.00
Rodriguez, Jesus (Jesse)	0.75	0.96	7.48	3.46	1.47	9.70	9.80
Sanchez, Arthur (Rerate)	2.32	1.09	8.07	3.84	1.53	9.89	9.82
Swanson, Dennis	1.47	0.88	7.62	3.50	1.72	9.93	9.53
Trevino, Robert	1.40	1.14	8.59	3.96	1.66	9.90	9.76
Veiga, Victor	1.49	0.99	8.08	3.75	1.53	9.90	9.75
Viera, Ralph B.	1.52	0.95	8.49	4.76	1.47	9.84	9.98
MAXIMUM	2.10	1.14	8.59	4.45	1.72	9.98	9.99
MINIMUM	0.75	0.77	7.66	3.11	1.27	9.63	9.40
RANGE(MAX-MIN)	1.350	0.370	0.930	1.340	0.450	0.350	0.590
MEAN	1.641	0.977	8.048	3.704	1.475	9.847	9.708
STANDARD DEVIATION	0.374	0.106	0.279	0.386	0.141	0.105	0.165
N SIZE	24.000						

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= B3 - SEQUENCE IIIH PISTON

B3 YI Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	FRTOT	RRTOT
Aguirre, Nancy P	1.15	1.26	0.69	-0.37	0.39	0.50	0.68
Arrizon, Richard	-0.11	0.59	-0.42	-0.92	0.11	1.36	0.25
Barrera, Tony	1.23	0.22	-0.53	1.08	0.25	0.12	-0.23
Cales, Jonathon	0.56	2.20	0.01	-0.71	-0.81	0.03	0.13
Caproni, David	2.91	1.26	0.44	1.21	1.39	0.50	0.56
Cumberworth, Lee	0.59	-0.83	-0.49	-0.74	-1.45	-2.06	1.71
DeCapite, Vanessa	-0.67	0.69	-0.49	-0.61	-0.46	-1.02	1.16
Dominguez, Lucio	0.45	0.12	-0.64	-0.04	0.32	0.31	0.62
Foecking, Brian	0.13	0.59	-1.03	-1.02	-1.03	0.31	-1.20
Hurst, Kevin R.	-0.59	-0.73	-1.39	-0.45	0.11	-1.78	0.56
King, Jennifer	-1.18	0.22	0.51	0.25	-1.10	1.36	0.74
Kobrinetz, Joaquin J.	-0.30	0.50	0.22	0.59	0.18	0.31	-1.87
Langford, Mike	0.02	1.45	-0.28	-1.41	0.04	-0.64	-1.99
Li, Jie	0.21	-0.64	1.55	0.51	1.10	1.26	0.74
Lonsway, Chris	0.16	-0.16	0.04	-0.11	-0.88	0.41	-0.90
Lopez, Frank	-2.38	-1.96	-0.14	-1.54	-0.96	0.12	0.13
May, Marianne	0.21	-0.54	1.33	1.93	1.74	1.26	0.19
Pitta, Jimmy	-1.29	1.35	0.04	0.56	0.11	0.12	1.77
Rodriguez, Jesus (Jesse)	-2.38	-0.16	-2.03	-0.63	-0.03	-1.40	0.56
Sanchez, Arthur (Rerate)	1.82	1.07	0.08	0.35	0.39	0.41	0.68
Swanson, Dennis	-0.46	-0.92	-1.53	-0.53	1.74	0.79	-1.08
Trevino, Robert	-0.64	1.54	1.94	0.66	1.32	0.50	0.31
Veiga, Victor	-0.40	0.12	0.11	0.12	0.39	0.50	0.25
Viera, Ralph B.	-0.32	-0.26	1.58	2.74	-0.03	-0.07	1.65
MAXIMUM	-2.38	-1.96	1.94	1.93	1.74	-2.06	-1.87
MINIMUM	0.13	0.12	0.04	-0.04	0.11	0.12	0.13
RANGE(MAX-MIN)	-2.515	-2.082	1.897	1.970	1.633	-2.185	-1.999
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
N SIZE	24.000						

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= B4 - SEQUENCE IIIH PISTON

Rated Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	FRTOT	RRTOT
Aguirre, Nancy P	1.21	4.62	9.49	5.20	9.30	9.90	9.90
Barrera, Tony	1.65	4.77	9.28	4.25	9.22	9.91	9.91
Bolaney, Jonathan	0.75	4.52	9.68	4.55	9.31	9.90	9.90
Cales, Jonathon	1.17	4.63	9.60	4.86	9.56	9.90	9.90
Caproni, David	1.40	4.95	9.59	4.84	9.71	9.90	9.90
Cumberworth, Lee	1.30	5.15	9.53	3.57	9.31	9.95	9.95
DeCapite, Vanessa	1.30	4.16	9.39	4.71	9.50	9.95	9.95
Dominguez, Lucio	1.47	4.96	9.04	4.30	8.83	9.90	9.89
Foecking, Brian	1.08	4.04	9.69	5.26	9.55	9.90	9.90
Hayden, Matthew	1.13	4.71	9.70	3.87	9.32	9.90	9.88
Hurst, Kevin R.	1.23	4.24	9.10	4.50	8.92	9.80	9.80
Kobrinetz, Joaquin J.	1.24	4.90	9.65	4.76	9.51	9.95	9.95
Kunk, Daniel	1.28	5.01	9.42	4.24	9.35	10.00	10.00
Li, Jie	0.75	5.48	9.55	4.28	8.79	10.00	10.00
Lonsway, Chris	1.50	6.32	9.68	3.95	9.44	9.90	9.90
Lopez, Frank	0.75	5.23	9.44	4.61	9.50	9.90	9.90
May, Marianne	1.24	5.96	9.63	5.28	9.49	10.00	10.00
Pitta, Jimmy	1.44	6.12	9.72	3.80	9.25	10.00	10.00
Rodriguez, Jesus (Jesse)	1.02	4.01	9.70	5.08	9.25	9.90	9.90
Swanson, Dennis	1.48	4.58	9.63	4.10	9.08	9.98	9.99
Trevino, Robert	0.08	4.88	9.71	5.78	9.46	10.00	10.00
Veiga, Victor	0.98	4.72	9.83	4.08	9.50	9.90	9.90
Viera, Ralph B.	1.05	5.42	9.55	5.75	9.14	10.00	10.00
MAXIMUM	1.65	6.32	9.71	5.78	9.55	10.00	10.00
MINIMUM	0.08	4.04	9.04	3.57	8.83	9.80	9.80
RANGE(MAX-MIN)	1.570	2.280	0.670	2.210	0.720	0.200	0.200
MEAN	1.159	5.006	9.476	4.678	9.321	9.919	9.918
STANDARD DEVIATION	0.428	0.668	0.239	0.657	0.244	0.056	0.056
N SIZE	23.000						

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= B4 - SEQUENCE IIIH PISTON

B4 Yi Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	FRTOT	RRTOT
Aguirre, Nancy P	0.12	-0.58	0.06	0.79	-0.09	-0.34	-0.32
Barrera, Tony	1.15	-0.35	-0.82	-0.65	-0.41	-0.16	-0.15
Bolaney, Jonathan	-0.96	-0.73	0.85	-0.20	-0.04	-0.34	-0.32
Cales, Jonathon	0.03	-0.56	0.52	0.28	0.98	-0.34	-0.32
Caproni, David	0.56	-0.08	0.48	0.25	1.60	-0.34	-0.32
Cumberworth, Lee	0.33	0.22	0.22	-1.69	-0.04	0.55	0.57
DeCapite, Vanessa	0.33	-1.27	-0.36	0.05	0.73	0.55	0.57
Dominguez, Lucio	0.73	-0.07	-1.83	-0.58	-2.01	-0.34	-0.50
Foecking, Brian	-0.18	-1.45	0.89	0.89	0.94	-0.34	-0.32
Hayden, Matthew	-0.07	-0.44	0.94	-1.23	0.00	-0.34	-0.68
Hurst, Kevin R.	0.17	-1.15	-1.58	-0.27	-1.64	-2.14	-2.10
Kobrinetz, Joaquin J.	0.19	-0.16	0.73	0.12	0.78	0.55	0.57
Kunk, Daniel	0.28	0.01	-0.24	-0.67	0.12	1.45	1.46
Li, Jie	-0.96	0.71	0.31	-0.61	-2.18	1.45	1.46
Lonsway, Chris	0.80	1.97	0.85	-1.11	0.49	-0.34	-0.32
Lopez, Frank	-0.96	0.33	-0.15	-0.10	0.73	-0.34	-0.32
May, Marianne	0.19	1.43	0.64	0.92	0.69	1.45	1.46
Pitta, Jimmy	0.66	1.67	1.02	-1.34	-0.29	1.45	1.46
Rodriguez, Jesus (Jesse)	-0.32	-1.49	0.94	0.61	-0.29	-0.34	-0.32
Swanson, Dennis	0.75	-0.64	0.64	-0.88	-0.99	1.09	1.28
Trevino, Robert	-2.52	-0.19	0.98	1.68	0.57	1.45	1.46
Veiga, Victor	-0.42	-0.43	1.48	-0.91	0.73	-0.34	-0.32
Viera, Ralph B.	-0.25	0.62	0.31	1.63	-0.74	1.45	1.46
MAXIMUM	-2.52	1.97	-1.83	-1.69	-2.01	-2.14	-2.10
MINIMUM	0.12	-0.07	0.06	-0.10	-0.04	-0.16	-0.15
RANGE(MAX-MIN)	-2.640	2.036	-1.884	-1.583	-1.968	-1.973	-1.958
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
N SIZE	23.000						



## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= B5 - GMOD PISTON

Rated Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT
Aguirre, Nancy P	1.11	1.38	9.23	0.84	8.13	9.88	9.99
Barrera, Tony	0.98	0.96	8.90	0.86	7.77	9.65	9.91
Bolaney, Jonathan	1.16	1.43	9.54	0.93	7.77	9.68	9.90
Cumberworth, Lee	1.33	1.22	9.15	0.88	7.69	9.79	9.90
DeCapite, Vanessa	1.19	1.30	8.93	0.84	7.80	9.80	9.98
Dominguez, Lucio	1.00	1.17	9.12	0.87	7.55	9.62	9.90
Foecking, Brian	1.09	1.20	9.71	0.84	7.84	9.61	9.89
Hurst, Kevin R.	1.06	1.14	9.31	0.93	8.21	9.57	9.80
Kobrinetz, Joaquin J.	1.33	1.20	9.14	0.83	7.69	9.79	9.94
Kunk, Daniel	1.09	1.26	9.18	0.86	7.82	9.81	10.00
Li, Jie	1.49	1.21	9.15	0.88	7.82	9.60	9.91
Lonsway, Chris	1.54	1.28	9.45	0.92	7.23	9.69	9.85
Lopez, Frank	0.94	1.15	9.47	0.82	8.67	9.58	9.90
May, Marianne	0.88	1.13	9.53	0.83	8.61	9.74	9.98
Rodriguez, Jesus (Jesse)	1.24	1.33	9.31	0.75	8.28	9.82	9.90
Swanson, Dennis	1.26	1.10	9.02	0.79	7.32	9.69	9.98
Trevino, Robert	1.34	1.40	9.55	0.75	7.78	9.82	9.94
Veiga, Victor	1.00	1.42	9.79	0.94	8.07	9.74	9.90
Viera, Ralph B.	1.28	1.38	9.24	0.98	8.53	9.81	10.00
MAXIMUM	1.54	1.40	9.71	0.93	8.67	9.88	9.99
MINIMUM	0.88	0.96	8.90	0.75	7.23	9.57	9.80
RANGE(MAX-MIN)	0.660	0.440	0.810	0.180	1.440	0.310	0.190
MEAN	1.145	1.203	9.324	0.852	7.925	9.704	9.909
STANDARD DEVIATION	0.208	0.122	0.240	0.050	0.440	0.106	0.054
N SIZE	19,000						

Part ID= B5 - GMOD PISTON

B5 YI Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT
Aguirre, Nancy P	-0.17	1.45	-0.39	-0.24	0.47	1.66	1.49
Barrera, Tony	-0.79	-1.99	-1.77	0.16	-0.35	-0.50	0.02
Bolaney, Jonathan	0.07	1.86	0.90	1.56	-0.35	-0.22	-0.17
Cumberworth, Lee	0.89	0.14	-0.72	0.56	-0.53	0.81	-0.17
DeCapite, Vanessa	0.21	0.80	-1.64	-0.24	-0.28	0.91	1.31
Dominguez, Lucio	-0.70	-0.27	-0.85	0.36	-0.85	-0.79	-0.17
Foecking, Brian	-0.27	-0.02	1.61	-0.24	-0.19	-0.88	-0.35
Hurst, Kevin R.	-0.41	-0.51	-0.06	1.56	0.65	-1.26	-2.01
Kobrinetz, Joaquin J.	0.89	-0.02	-0.77	-0.44	-0.53	0.81	0.57
Kunk, Daniel	-0.27	0.47	-0.60	0.16	-0.24	1.00	1.67
Li, Jie	1.65	0.06	-0.72	0.56	-0.24	-0.98	0.02
Lonsway, Chris	1.89	0.63	0.53	1.36	-1.58	-0.13	-1.09
Lopez, Frank	-0.99	-0.43	0.61	-0.64	1.70	-1.16	-0.17
May, Marianne	-1.27	-0.60	0.86	-0.44	1.56	0.34	1.31
Rodriguez, Jesus (Jesse)	0.45	1.04	-0.06	-2.04	0.81	1.10	-0.17
Swanson, Dennis	0.55	-0.84	-1.27	-1.24	-1.37	-0.13	1.31
Trevino, Robert	0.93	1.62	0.94	-2.04	-0.33	1.10	0.57
Veiga, Victor	-0.70	1.78	1.95	1.76	0.33	0.34	-0.17
Viera, Ralph B.	0.65	1.45	-0.35	2.56	1.38	1.00	1.67
MAXIMUM	1.89	-1.99	-1.77	-2.04	1.70	1.66	-2.01
MINIMUM	-0.17	-0.02	-0.06	0.16	-0.19	-0.13	0.02
RANGE(MAX-MIN)	2.063	-1.969	-1.711	-2.200	1.887	1.789	-2.026
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	1.000	1.000	1.000	0.991	1.000	1.000	1.000
N SIZE	19,000						

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= B6 - GMOD PISTON

Rated Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT
Aguirre, Nancy P	1.05	2.11	9.75	0.75	6.75	8.87	9.83
Barrera, Tony	0.84	1.72	9.68	0.77	6.39	8.24	9.64
Bolaney, Jonathan	0.93	1.96	9.85	0.75	6.35	7.93	9.60
Cumberworth, Lee	0.91	1.83	9.83	0.78	6.78	7.82	9.61
Dominguez, Lucio	1.03	2.11	9.77	1.03	6.40	8.74	9.64
Foecking, Brian	0.93	2.09	9.88	0.75	6.63	7.62	9.67
Hurst, Kevin R.	0.75	1.60	9.78	0.75	6.85	8.51	9.57
Kobrinetz, Joaquin J.	1.15	1.81	9.76	0.77	6.77	8.13	9.65
Li, Jie	1.08	2.03	9.73	0.80	7.18	7.43	9.52
Lonsway, Chris	1.06	1.89	9.80	0.75	6.65	7.86	9.60
Lopez, Frank	0.90	1.85	9.90	0.75	6.86	7.77	9.33
May, Marianne	0.97	1.77	9.83	0.75	7.20	8.27	9.54
Rodriguez, Jesus (Jesse)	1.08	1.87	9.83	0.75	6.85	8.19	9.63
Swanson, Dennis	1.08	1.55	9.69	0.81	6.63	7.95	9.56
Trevino, Robert	1.16	2.15	9.91	0.75	6.73	8.86	9.75
Viera, Ralph B.	1.01	2.11	9.83	0.75	7.37	8.67	9.76
MAXIMUM	1.16	2.15	9.91	0.78	7.20	8.87	9.83
MINIMUM	0.75	1.60	9.68	0.75	6.39	7.62	9.33
RANGE(MAX-MIN)	0.410	0.550	0.230	0.030	0.810	1.250	0.500
MEAN	0.977	1.903	9.808	0.757	6.728	8.245	9.621
STANDARD DEVIATION	0.127	0.185	0.070	0.050	0.223	0.452	0.126
N SIZE	16.000						

Part ID= B6 - GMOD PISTON

B6 YI Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT
Aguirre, Nancy P	0.57	1.12	-0.83	-0.14	0.10	1.38	1.66
Barrera, Tony	-1.08	-0.99	-1.82	0.26	-1.52	-0.01	0.15
Bolaney, Jonathan	-0.37	0.31	0.60	-0.14	-1.70	-0.70	-0.17
Cumberworth, Lee	-0.53	-0.39	0.31	0.46	0.23	-0.94	-0.09
Dominguez, Lucio	0.42	1.12	-0.54	5.46	-1.47	1.10	0.15
Foecking, Brian	-0.37	1.01	1.02	-0.14	-0.44	-1.38	0.39
Hurst, Kevin R.	-1.79	-1.64	-0.40	-0.14	0.55	0.59	-0.40
Kobrinetz, Joaquin J.	1.36	-0.50	-0.69	0.26	0.19	-0.25	0.23
Li, Jie	0.81	0.69	-1.11	0.86	2.03	-1.80	-0.80
Lonsway, Chris	0.65	-0.07	-0.12	-0.14	-0.35	-0.85	-0.17
Lopez, Frank	-0.61	-0.29	1.31	-0.14	0.59	-1.05	-2.31
May, Marianne	-0.06	-0.72	0.31	-0.14	2.12	0.06	-0.64
Rodriguez, Jesus (Jesse)	0.81	-0.18	0.31	-0.14	0.55	-0.12	0.07
Swanson, Dennis	0.81	-1.91	-1.68	1.06	-0.44	-0.65	-0.48
Trevino, Robert	1.44	1.34	1.45	-0.14	0.01	1.36	1.02
Viera, Ralph B.	0.26	1.12	0.31	-0.14	2.88	0.94	1.10
MAXIMUM	-1.79	-1.64	-1.82	0.46	2.12	1.38	-2.31
MINIMUM	-0.06	-0.07	-0.12	-0.14	0.01	-0.01	-0.09
RANGE(MAX-MIN)	-1.732	-1.569	-1.708	0.600	2.107	1.394	-2.223
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	1.000	1.000	1.000	0.232	1.000	1.000	1.000
N SIZE	16.000						

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= C1 - SEQUENCE IIIG PISTON

Rated Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	
Aguirre, Nancy P	3.98	0.75	8.97	1.03	3.34	9.76	9.89	
Barrera, Tony	2.51	0.69	8.92	0.84	3.12	9.54	9.92	
Bolaney, Jonathan	2.99	0.62	8.93	0.90	2.36	9.82	9.90	
Castillo, George	3.42	0.74	9.40	0.88	3.55	9.70	9.93	
Cumberworth, Lee	2.51	0.69	8.74	0.89	2.72	9.69	9.90	
Dominguez, Lucio	3.22	0.74	8.81	0.86	2.77	9.74	9.90	
Foeking, Brian	3.23	0.62	9.14	0.84	2.97	9.66	9.90	
Greenland, Paul	4.15	0.63	9.14	0.92	3.05	9.80	9.95	
Hurst, Kevin R.	2.97	0.68	8.84	1.20	3.26	9.64	9.80	
King, Jennifer	3.31	0.72	8.92	0.94	2.77	9.74	9.84	
Kobrinetz, Joaquin J.	3.57	0.65	8.80	0.70	3.17	9.85	9.95	
Kunk, Daniel	2.59	0.75	9.06	0.98	2.80	9.75	10.00	
Langford, Mike	3.71	0.67	8.85	1.08	2.50	9.70	9.93	
Lonsway, Chris	3.31	0.75	9.03	1.05	2.43	9.73	9.90	
Lopez, Frank	2.81	0.64	9.05	0.80	2.11	9.65	9.90	
May, Marianne	3.45	0.65	9.19	0.80	3.86	9.65	9.95	
Sanchez, Arthur	3.96	0.59	9.26	1.08	3.15	9.76	9.89	
Sanchez, Arthur (Rerate)	3.96	0.59	9.26	1.08	3.15	9.76	9.89	
Swanson, Dennis	3.39	0.64	8.52	0.77	3.15	9.90	9.99	
Terrado, Ken	3.16	0.76	8.79	1.14	3.35	9.81	9.89	
Trevino, Robert	3.56	0.68	8.93	0.75	3.43	9.70	9.92	
Veiga, Victor	2.96	0.72	9.28	0.78	3.06	9.80	9.90	
Viera, Ralph B.	3.38	0.65	8.99	0.97	4.04	9.96	10.00	
MAXIMUM	3.98	0.75	9.26	1.20	3.86	9.85	9.95	
MINIMUM	2.51	0.59	8.74	0.70	2.11	9.54	9.80	
RANGE(MAX-MIN)	1.470	0.160	0.520	0.500	1.750	0.310	0.150	
MEAN	3.257	0.678	8.973	0.903	3.028	9.698	9.902	
STANDARD DEVIATION	0.491	0.051	0.165	0.152	0.468	0.079	0.050	
N SIZE	23.000							

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= C1 - SEQUENCE IIIG PISTON

C1 Yi Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT
Aguirre, Nancy P	1.47	1.42	-0.02	0.84	0.67	0.79	-0.23
Barrera, Tony	-1.52	0.25	-0.32	-0.42	0.20	-2.00	0.37
Bolaney, Jonathan	-0.54	-1.13	-0.26	-0.02	-1.43	1.56	-0.03
Castillo, George	0.33	1.23	2.59	-0.15	1.12	0.03	0.57
Cumberworth, Lee	-1.52	0.25	-1.41	-0.09	-0.66	-0.10	-0.03
Dominguez, Lucio	-0.07	1.23	-0.99	-0.29	-0.55	0.54	-0.03
Foeking, Brian	-0.05	-1.13	1.01	-0.42	-0.12	-0.48	-0.03
Greenland, Paul	1.82	-0.93	1.01	0.11	0.05	1.30	0.97
Hurst, Kevin R.	-0.58	0.05	-0.81	1.96	0.50	-0.73	-2.03
King, Jennifer	0.11	0.83	-0.32	0.24	-0.55	0.54	-1.23
Kobrinetz, Joaquin J.	0.64	-0.54	-1.05	-1.34	0.30	1.94	0.97
Kunk, Daniel	-1.36	1.42	0.53	0.51	-0.49	0.67	1.97
Langford, Mike	0.92	-0.15	-0.75	1.16	-1.13	0.03	0.57
Lonsway, Chris	0.11	1.42	0.34	0.97	-1.28	0.41	-0.03
Lopez, Frank	-0.91	-0.74	0.46	-0.68	-1.96	-0.60	-0.03
May, Marianne	0.39	-0.54	1.31	-0.68	1.78	-0.60	0.97
Sanchez, Arthur	1.43	-1.72	1.74	1.16	0.26	0.79	-0.23
Sanchez, Arthur (Rerate)	1.43	-1.72	1.74	1.16	0.26	0.79	-0.23
Swanson, Dennis	0.27	-0.74	-2.75	-0.88	0.26	2.58	1.77
Terrado, Ken	-0.20	1.62	-1.11	1.56	0.69	1.43	-0.23
Trevino, Robert	0.62	0.05	-0.26	-1.01	0.86	0.03	0.37
Veiga, Victor	-0.60	0.83	1.86	-0.81	0.07	1.30	-0.03
Viera, Ralph B.	0.25	-0.54	0.10	0.44	2.16	3.34	1.97
MAXIMUM	-1.52	-1.72	1.74	1.96	-1.96	-2.00	-2.03
MINIMUM	-0.05	0.05	-0.02	-0.09	-0.12	0.03	-0.03
RANGE(MAX-MIN)	-1.468	-1.764	1.757	2.044	-1.836	-2.035	-2.000
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	0.762
N SIZE	23.000						

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= C2 - SEQUENCE IIIG PISTON

Rated Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT
Aguirre, Nancy P	0.75	0.75	9.70	0.89	3.93	9.70	9.89
Barrera, Tony	0.75	0.75	9.95	0.95	3.54	9.68	9.90
Castillo, George	0.70	0.78	9.95	0.88	3.77	9.75	9.89
Cumberworth, Lee	0.74	0.75	9.69	1.01	3.47	9.83	9.90
Dominguez, Lucio	0.75	0.75	9.76	1.01	3.72	9.85	9.90
Foecking, Brian	0.73	0.73	9.90	0.99	3.92	9.54	9.90
Greenland, Paul	0.69	0.75	9.90	0.93	4.40	9.85	10.00
Hurst, Kevin R.	0.73	0.75	9.75	1.10	3.68	9.68	9.80
King, Jennifer	0.75	0.75	9.60	0.95	3.34	9.80	9.90
Kobrinetz, Joaquin J.	0.74	0.71	9.80	0.88	3.76	9.78	9.90
Kunk, Daniel	0.75	0.78	9.73	0.95	4.28	9.88	10.00
Langford, Mike	0.70	0.75	9.80	1.03	3.49	9.60	9.96
Lonsway, Chris	0.75	0.75	9.80	0.94	3.77	9.74	9.90
Lopez, Frank	0.72	0.75	9.80	1.17	4.21	9.56	9.90
May, Marianne	0.75	0.75	9.85	0.89	4.21	9.85	10.00
Swanson, Dennis	0.75	0.80	9.68	1.00	3.83	9.57	9.98
Terrado, Ken	0.75	0.80	9.82	1.18	4.02	9.64	9.90
Trevino, Robert	0.75	0.75	9.86	0.75	3.73	9.81	9.97
Viera, Ralph B.	0.69	0.75	9.95	1.06	4.24	9.85	10.00
MAXIMUM	0.75	0.75	9.95	1.17	4.21	9.85	10.00
MINIMUM	0.72	0.71	9.69	0.75	3.47	9.54	9.80
RANGE(MAX-MIN)	0.030	0.040	0.260	0.420	0.740	0.310	0.200
MEAN	0.742	0.745	9.805	0.962	3.813	9.729	9.905
STANDARD DEVIATION	0.050	0.050	0.080	0.114	0.239	0.109	0.050
N SIZE	19.000						

Part ID= C2 - SEQUENCE IIIG PISTON

C2 YI Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT
Aguirre, Nancy P	0.16	0.11	-1.31	-0.63	0.49	-0.27	-0.31
Barrera, Tony	0.16	0.11	1.80	-0.10	-1.14	-0.45	-0.11
Castillo, George	-0.84	0.71	1.80	-0.72	-0.18	0.19	-0.31
Cumberworth, Lee	-0.04	0.11	-1.44	0.42	-1.44	0.93	-0.11
Dominguez, Lucio	0.16	0.11	-0.57	0.42	-0.39	1.11	-0.11
Foecking, Brian	-0.24	-0.29	1.18	0.25	0.45	-1.74	-0.11
Greenland, Paul	-1.04	0.11	1.18	-0.28	2.46	1.11	1.89
Hurst, Kevin R.	-0.24	0.11	-0.69	1.21	-0.56	-0.45	-2.11
King, Jennifer	0.16	0.11	-2.56	-0.10	-1.98	0.65	-0.11
Kobrinetz, Joaquin J.	-0.04	-0.69	-0.07	-0.72	-0.22	0.47	-0.11
Kunk, Daniel	0.16	0.71	-0.94	-0.10	1.96	1.39	1.89
Langford, Mike	-0.84	0.11	-0.07	0.60	-1.35	-1.18	1.09
Lonsway, Chris	0.16	0.11	-0.07	-0.19	-0.18	0.10	-0.11
Lopez, Frank	-0.44	0.11	-0.07	1.82	1.66	-1.55	-0.11
May, Marianne	0.16	0.11	0.55	-0.63	1.66	1.11	1.89
Swanson, Dennis	0.16	1.11	-1.56	0.33	0.07	-1.46	1.49
Terrado, Ken	0.16	1.11	0.18	1.91	0.87	-0.82	-0.11
Trevino, Robert	0.16	0.11	0.68	-1.86	-0.35	0.74	1.29
Viera, Ralph B.	-1.04	0.11	1.80	0.86	1.79	1.11	1.89
MAXIMUM	-0.44	-0.69	1.80	-1.86	1.66	-1.74	-2.11
MINIMUM	-0.04	0.11	-0.07	-0.10	-0.18	0.10	-0.11
RANGE(MAX-MIN)	-0.400	-0.800	1.868	-1.752	1.842	-1.836	-2.000
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	0.216	0.259	1.000	1.000	1.000	1.000	0.993
N SIZE	19.000						

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= C3 - SEQUENCE IIIH PISTON

Rated Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	FRTOT	RRTOT
Aguirre, Nancy P	0.98	1.65	9.65	1.36	7.40	9.90	9.96
Barrera, Tony	1.42	1.54	9.76	1.18	6.79	9.91	9.90
Cales, Jonathon	1.03	1.17	9.82	1.16	6.63	9.90	9.90
Caproni, David	1.06	1.73	9.70	1.03	6.54	9.90	9.90
Castillo, George	1.17	1.75	9.84	1.24	7.41	9.88	9.87
Cumberworth, Lee	1.20	1.69	9.65	1.23	6.55	9.90	9.90
Dominguez, Lucio	1.27	1.38	9.61	1.22	6.37	9.89	9.88
Foecking, Brian	0.86	1.44	9.83	1.23	6.41	9.90	9.90
Greenland, Paul	1.03	1.62	9.82	1.26	6.91	9.90	9.95
Hayden, Matthew	0.99	1.38	9.75	1.10	7.13	9.90	9.89
Hurst, Kevin R.	0.91	1.77	9.80	1.27	7.16	9.90	9.90
Kobrinetz, Joaquin J.	1.35	1.58	9.68	1.24	7.17	9.90	9.89
Langford, Mike	1.03	1.57	9.70	1.23	6.18	9.90	9.83
Lonsway, Chris	1.27	1.40	9.72	1.21	6.91	9.90	9.90
Lopez, Frank	0.75	1.73	9.79	1.06	7.46	9.90	9.90
May, Marianne	0.90	1.26	9.62	1.24	7.78	9.88	9.95
Swanson, Dennis	1.00	1.83	9.73	1.27	6.85	9.98	9.98
Terrado, Ken	0.96	1.32	9.82	1.19	6.18	9.90	9.90
Veiga, Victor	0.89	1.87	9.85	1.12	5.82	9.90	9.90
Viera, Ralph B.	0.89	1.56	9.88	1.41	7.00	10.00	10.00
MAXIMUM	1.42	1.77	9.83	1.36	7.78	9.91	9.96
MINIMUM	0.75	1.26	9.61	1.06	6.37	9.88	9.88
RANGE(MAX-MIN)	0.670	0.510	0.220	0.300	1.410	0.030	0.080
MEAN	1.091	1.544	9.711	1.224	7.000	9.898	9.908
STANDARD DEVIATION	0.236	0.170	0.080	0.075	0.475	0.050	0.050
N SIZE	20.000						

Part ID= C3 - SEQUENCE IIIH PISTON

C3 Y1 Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	FRTOT	RRTOT
Aguirre, Nancy P	-0.47	0.63	-0.76	1.82	0.84	0.04	1.04
Barrera, Tony	1.39	-0.02	0.61	-0.59	-0.44	0.24	-0.16
Cales, Jonathon	-0.26	-2.21	1.36	-0.86	-0.78	0.04	-0.16
Caproni, David	-0.13	1.10	-0.14	-2.60	-0.97	0.04	-0.16
Castillo, George	0.33	1.22	1.61	0.21	0.86	-0.36	-0.76
Cumberworth, Lee	0.46	0.86	-0.76	0.08	-0.95	0.04	-0.16
Dominguez, Lucio	0.76	-0.97	-1.26	-0.05	-1.33	-0.16	-0.56
Foecking, Brian	-0.98	-0.61	1.49	0.08	-1.24	0.04	-0.16
Greenland, Paul	-0.26	0.45	1.36	0.48	-0.19	0.04	0.84
Hayden, Matthew	-0.43	-0.97	0.49	-1.66	0.27	0.04	-0.36
Hurst, Kevin R.	-0.77	1.33	1.11	0.62	0.34	0.04	-0.16
Kobrinetz, Joaquin J.	1.10	0.21	-0.39	0.21	0.36	0.04	-0.36
Langford, Mike	-0.26	0.15	-0.14	0.08	-1.72	0.04	-1.56
Lonsway, Chris	0.76	-0.85	0.11	-0.19	-0.19	0.04	-0.16
Lopez, Frank	-1.44	1.10	0.99	-2.20	0.97	0.04	-0.16
May, Marianne	-0.81	-1.68	-1.14	0.21	1.64	-0.36	0.84
Swanson, Dennis	-0.39	1.69	0.24	0.62	-0.32	1.64	1.44
Terrado, Ken	-0.55	-1.32	1.36	-0.46	-1.72	0.04	-0.16
Veiga, Victor	-0.85	1.92	1.74	-1.39	-2.48	0.04	-0.16
Viera, Ralph B.	-0.85	0.09	2.11	2.49	0.00	2.04	1.84
MAXIMUM	-1.44	-1.68	1.49	-2.20	1.64	-0.36	1.04
MINIMUM	0.46	-0.02	0.11	-0.05	-0.19	0.04	-0.16
RANGE(MAX-MIN)	-1.905	-1.652	1.374	-2.142	1.830	-0.400	1.200
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	0.158	0.515
N SIZE	20.000						

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= C4 - SEQUENCE IIIH PISTON

Rated Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	FRTOT	RRTOT
Aguirre, Nancy P	3.06	1.21	7.65	5.85	1.03	9.99	9.73
Barrera, Tony	2.32	1.12	7.46	5.38	0.84	9.80	9.57
Cales, Jonathon	3.16	1.18	7.25	5.86	0.98	9.80	9.71
Caproni, David	3.10	1.20	7.40	5.15	1.00	9.80	9.71
Castillo, George	2.81	1.36	7.98	5.38	1.07	9.89	9.76
Cumberworth, Lee	2.76	0.99	6.56	4.79	0.93	9.87	9.51
Dominguez, Lucio	2.65	1.09	7.09	4.91	1.00	9.73	9.55
Foecking, Brian	2.79	1.27	7.34	5.51	0.80	9.90	9.61
Greenland, Paul	2.88	1.17	7.02	5.59	1.20	9.80	9.65
Hayden, Matthew	2.58	1.01	6.47	4.17	0.91	9.85	9.61
Hurst, Kevin R.	3.41	1.09	6.60	4.81	0.91	9.73	9.80
Kobrinetz, Joaquin J.	2.77	1.04	6.99	5.60	1.09	9.80	9.35
Langford, Mike	2.78	1.30	7.68	4.47	1.04	9.77	9.70
Lonsway, Chris	1.41	1.04	7.01	4.53	0.89	9.80	9.66
Lopez, Frank	2.05	1.18	7.98	4.36	0.81	9.90	9.74
May, Marianne	2.89	1.01	7.60	6.47	0.99	9.76	9.68
Swanson, Dennis	1.91	1.17	7.30	5.61	0.97	9.97	9.65
Terrado, Ken	2.59	1.08	6.77	3.47	0.79	9.60	9.84
Viera, Ralph B.	1.52	1.23	7.05	5.74	0.90	9.61	9.86
MAXIMUM	3.41	1.27	7.98	6.47	1.09	9.99	9.80
MINIMUM	1.41	0.99	6.56	4.36	0.80	9.73	9.35
RANGE(MAX-MIN)	2.000	0.280	1.420	2.110	0.290	0.260	0.450
MEAN	2.611	1.104	7.228	5.221	0.929	9.828	9.620
STANDARD DEVIATION	0.562	0.091	0.461	0.656	0.097	0.085	0.132
N SIZE	19.000						

Part ID= C4 - SEQUENCE IIIH PISTON

C4 YI Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	FRTOT	RRTOT
Aguirre, Nancy P	0.80	1.16	0.92	0.96	1.04	1.91	0.83
Barrera, Tony	-0.52	0.18	0.50	0.24	-0.91	-0.33	-0.38
Cales, Jonathon	0.98	0.83	0.05	0.97	0.52	-0.33	0.68
Caproni, David	0.87	1.05	0.37	-0.11	0.73	-0.33	0.68
Castillo, George	0.35	2.80	1.63	0.24	1.45	0.73	1.06
Cumberworth, Lee	0.27	-1.25	-1.45	-0.66	0.01	0.50	-0.83
Dominguez, Lucio	0.07	-0.15	-0.30	-0.47	0.73	-1.16	-0.53
Foecking, Brian	0.32	1.82	0.24	0.44	-1.32	0.85	-0.08
Greenland, Paul	0.48	0.72	-0.45	0.56	2.78	-0.33	0.23
Hayden, Matthew	-0.06	-1.03	-1.64	-1.60	-0.19	0.26	-0.08
Hurst, Kevin R.	1.42	-0.15	-1.36	-0.63	-0.19	-1.16	1.36
Kobrinetz, Joaquin J.	0.28	-0.70	-0.52	0.58	1.65	-0.33	-2.05
Langford, Mike	0.30	2.14	0.98	-1.14	1.14	-0.68	0.61
Lonsway, Chris	-2.14	-0.70	-0.47	-1.05	-0.40	-0.33	0.30
Lopez, Frank	-1.00	0.83	1.63	-1.31	-1.22	0.85	0.91
May, Marianne	0.50	-1.03	0.81	1.90	0.63	-0.80	0.45
Swanson, Dennis	-1.25	0.72	0.16	0.59	0.42	1.68	0.23
Terrado, Ken	-0.04	-0.26	-0.99	-2.67	-1.43	-2.69	1.67
Viera, Ralph B.	-1.94	1.38	-0.39	0.79	-0.30	-2.57	1.82
MAXIMUM	-2.14	1.82	1.63	1.90	1.65	1.91	-2.05
MINIMUM	0.07	-0.15	0.24	0.24	0.01	-0.33	-0.08
RANGE(MAX-MIN)	-2.207	1.969	1.389	1.661	1.642	2.243	-1.971
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
N SIZE	19.000						

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= C5 - GMOD PISTON

Rated Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT
Aguirre, Nancy P	0.75	1.01	9.45	0.83	6.43	9.76	9.99
Barrera, Tony	0.78	0.75	8.97	0.92	6.37	9.50	9.90
Castillo, George	1.12	1.14	9.58	0.77	6.73	9.67	9.93
Cumberworth, Lee	0.85	0.91	9.33	0.92	6.36	9.65	9.90
Dominguez, Lucio	1.03	0.92	9.44	0.86	6.02	9.79	9.89
Foecking, Brian	0.83	0.76	9.79	0.75	6.89	9.30	9.90
Hurst, Kevin R.	0.75	0.88	9.40	0.93	6.37	9.77	9.90
Kobrinetz, Joaquin J.	1.00	0.97	8.96	0.86	6.41	9.63	9.93
Kunk, Daniel	0.98	0.96	8.99	0.77	6.14	9.75	9.93
Lonsway, Chris	0.89	1.00	9.30	1.00	6.39	9.56	9.90
Lopez, Frank	0.75	0.75	9.56	1.02	6.61	9.41	9.90
May, Marianne	0.78	0.87	9.63	0.77	6.99	9.72	9.94
Swanson, Dennis	0.80	0.92	8.95	0.81	6.25	9.44	9.99
Viera, Ralph B.	0.65	1.07	9.73	0.88	7.04	9.79	10.00
MAXIMUM	1.03	1.01	9.79	1.02	6.99	9.79	9.99
MINIMUM	0.75	0.75	8.96	0.75	6.02	9.30	9.89
RANGE(MAX-MIN)	0.280	0.260	0.830	0.270	0.970	0.490	0.100
MEAN	0.841	0.882	9.383	0.886	6.484	9.609	9.915
STANDARD DEVIATION	0.103	0.100	0.264	0.089	0.281	0.165	0.050
N SIZE	14.000						

Part ID= C5 - GMOD PISTON

C5 Y1 Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT
Aguirre, Nancy P	-0.88	1.28	0.25	-0.63	-0.19	0.91	1.50
Barrera, Tony	-0.59	-1.32	-1.57	0.38	-0.41	-0.66	-0.30
Castillo, George	2.70	2.58	0.75	-1.30	0.88	0.37	0.30
Cumberworth, Lee	0.09	0.28	-0.20	0.38	-0.44	0.25	-0.30
Dominguez, Lucio	1.83	0.38	0.22	-0.29	-1.65	1.10	-0.50
Foecking, Brian	-0.11	-1.22	1.54	-1.52	1.44	-1.87	-0.30
Hurst, Kevin R.	-0.88	-0.02	0.06	0.49	-0.41	0.98	-0.30
Kobrinetz, Joaquin J.	1.54	0.88	-1.60	-0.29	-0.26	0.13	0.30
Kunk, Daniel	1.35	0.78	-1.49	-1.30	-1.22	0.85	0.30
Lonsway, Chris	0.47	1.18	-0.31	1.28	-0.33	-0.30	-0.30
Lopez, Frank	-0.88	-1.32	0.67	1.50	0.45	-1.21	-0.30
May, Marianne	-0.59	-0.12	0.94	-1.30	1.80	0.67	0.50
Swanson, Dennis	-0.40	0.38	-1.64	-0.85	-0.83	-1.02	1.50
Viera, Ralph B.	-1.85	1.88	1.32	-0.07	1.98	1.10	1.70
MAXIMUM	1.83	-1.32	-1.60	-1.52	1.80	-1.87	1.50
MINIMUM	0.09	-0.02	0.06	-0.29	-0.19	0.13	-0.30
RANGE(MAX-MIN)	1.744	-1.299	-1.669	-1.233	1.993	-1.999	1.800
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	0.613
N SIZE	14.000						



## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= C6 - GMOD PISTON

Rated Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT
Aguirre, Nancy P	0.80	9.23	9.69	0.89	9.62	9.75	9.98
Barrera, Tony	0.80	9.38	9.76	0.84	9.63	9.76	9.88
Castillo, George	0.78	9.57	9.88	0.88	9.84	9.73	9.85
Cumberworth, Lee	0.82	9.44	9.74	0.88	9.62	9.57	9.75
Dominguez, Lucio	0.82	9.40	9.75	0.90	9.73	9.72	9.86
Foecking, Brian	0.78	9.79	9.90	0.77	9.86	9.52	9.75
Hurst, Kevin R.	0.78	9.52	9.90	0.93	9.83	9.75	9.82
Kobrinetz, Joaquin J.	0.86	9.55	9.68	0.82	9.78	9.56	9.84
Kunk, Daniel	0.80	9.66	9.90	0.94	9.49	9.70	9.88
Lonsway, Chris	0.84	9.53	9.86	0.92	9.83	9.63	9.75
Lopez, Frank	0.75	9.81	9.90	0.93	9.83	9.11	9.69
May, Marianne	0.78	9.59	9.82	0.81	9.80	9.68	9.87
Swanson, Dennis	0.84	9.46	9.69	0.94	9.57	9.55	9.76
Viera, Ralph B.	0.80	9.73	9.83	0.81	9.81	9.72	9.87
MAXIMUM	0.86	9.81	9.90	0.93	9.86	9.76	9.98
MINIMUM	0.75	9.23	9.68	0.77	9.62	9.11	9.69
RANGE(MAX-MIN)	0.110	0.580	0.220	0.160	0.240	0.650	0.290
MEAN	0.803	9.524	9.800	0.869	9.753	9.605	9.819
STANDARD DEVIATION	0.050	0.179	0.087	0.056	0.096	0.195	0.085
N SIZE	14.000						

Part ID= C6 - GMOD PISTON

C6 Y1 Values

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

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT
Aguirre, Nancy P	-0.06	-1.65	-1.26	0.38	-1.38	0.74	1.89
Barrera, Tony	-0.06	-0.81	-0.46	-0.52	-1.28	0.80	0.72
Castillo, George	-0.46	0.26	0.92	0.20	0.90	0.64	0.36
Cumberworth, Lee	0.34	-0.47	-0.69	0.20	-1.38	-0.18	-0.81
Dominguez, Lucio	0.34	-0.69	-0.57	0.55	-0.24	0.59	0.48
Foecking, Brian	-0.46	1.49	1.15	-1.77	1.11	-0.44	-0.81
Hurst, Kevin R.	-0.46	-0.02	1.15	1.09	0.80	0.74	0.01
Kobrinetz, Joaquin J.	1.14	0.15	-1.38	-0.88	0.28	-0.23	0.25
Kunk, Daniel	-0.06	0.76	1.15	1.27	-2.74	0.49	0.72
Lonsway, Chris	0.74	0.03	0.69	0.91	0.80	0.13	-0.81
Lopez, Frank	-1.06	1.60	1.15	1.09	0.80	-2.54	-1.51
May, Marianne	-0.46	0.37	0.23	-1.06	0.49	0.39	0.60
Swanson, Dennis	0.74	-0.36	-1.26	1.27	-1.90	-0.28	-0.69
Viera, Ralph B.	-0.06	1.15	0.34	-1.06	0.59	0.59	0.60
MAXIMUM	1.14	-1.65	-1.38	-1.77	-1.38	-2.54	1.89
MINIMUM	-0.06	-0.02	0.23	0.20	-0.24	0.13	0.01
RANGE(MAX-MIN)	1.200	-1.623	-1.608	-1.969	-1.144	-2.671	1.879
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	0.654	1.000	1.000	1.000	1.000	1.000	1.000
N SIZE	14.000						

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= H1-8 - INTAKE VALVE SET

Rated Values

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

Rater	P1	P2	P3	P4	P5	P6	P7	P8
Aguirre, Nancy P	8.00	7.50	7.30	7.50	7.00	6.80	7.80	7.50
Barrera, Tony	7.80	7.20	7.40	7.00	7.00	6.90	7.70	7.60
Bolaney, Jonathan	7.90	6.80	7.40	6.30	6.70	6.80	7.80	7.60
Campbell, Bryan	8.80	6.90	8.20	7.70	7.40	6.60	7.90	8.40
Cumberworth, Lee	7.55	7.22	7.70	7.43	7.37	7.10	8.20	7.70
DeCapite, Vanessa	9.20	7.00	8.30	6.80	7.30	6.90	9.00	8.90
Dominguez, Lucio	8.30	6.80	7.80	6.80	6.80	7.00	8.50	8.30
Foecking, Brian	8.40	6.70	7.00	6.60	6.80	6.70	8.20	7.80
Hayden, Matthew	8.30	7.19	7.39	7.01	7.11	6.78	8.10	7.98
Hurst, Kevin R.	7.80	6.30	7.30	6.50	7.00	6.20	7.70	7.60
Kobrinetz, Joaquin J.	8.13	7.23	7.33	7.08	7.10	6.80	7.89	8.00
Kunk, Daniel	8.60	7.00	7.90	6.80	7.30	7.00	8.50	7.60
Lonsway, Chris	9.00	7.00	8.10	6.80	7.10	6.80	8.50	8.10
Lopez, Frank	8.20	6.50	7.40	6.50	6.70	6.40	7.70	7.00
May, Marianne	8.20	7.20	7.40	6.90	7.20	7.00	8.00	7.80
Pitta, Jimmy	8.50	6.30	7.00	6.50	7.00	6.00	8.00	8.00
Rodriguez, Jesus (Jesse)	8.50	7.00	7.50	6.90	7.30	6.80	8.20	8.00
Sanchez, Arthur	8.30	6.80	7.80	6.80	7.80	6.80	8.30	8.20
Trevino, Robert	8.10	7.00	7.30	6.90	7.10	6.80	7.90	7.80
MAXIMUM	9.20	7.50	8.30	7.70	7.80	7.10	9.00	8.90
MINIMUM	7.55	6.30	7.00	6.30	6.70	6.00	7.70	7.00
RANGE(MAX-MIN)	1.650	1.200	1.300	1.400	1.100	1.100	1.300	1.900
MEAN	8.294	6.928	7.554	6.885	7.109	6.746	8.099	7.888
STANDARD DEVIATION	0.417	0.318	0.374	0.358	0.271	0.277	0.347	0.406
N SIZE	19,000							

Part ID= H1-8 - INTAKE VALVE SET

H1-8 Y1 Values

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

Rater	P1	P2	P3	P4	P5	P6	P7	P8
Aguirre, Nancy P	-0.70	1.80	-0.68	1.72	-0.40	0.19	-0.86	-0.96
Barrera, Tony	-1.18	0.85	-0.41	0.32	-0.40	0.55	-1.15	-0.71
Bolaney, Jonathan	-0.94	-0.40	-0.41	-1.63	-1.51	0.19	-0.86	-0.71
Campbell, Bryan	1.21	-0.09	1.73	2.27	1.07	-0.53	-0.58	1.26
Cumberworth, Lee	-1.78	0.92	0.39	1.52	0.96	1.27	0.29	-0.46
DeCapite, Vanessa	2.17	0.23	2.00	-0.24	0.70	0.55	2.60	2.49
Dominguez, Lucio	0.02	-0.40	0.66	-0.24	-1.14	0.91	1.16	1.01
Foecking, Brian	0.25	-0.72	-1.48	-0.80	-1.14	-0.17	0.29	-0.22
Hayden, Matthew	0.02	0.82	-0.44	0.35	0.00	0.12	0.00	0.23
Hurst, Kevin R.	-1.18	-1.98	-0.68	-1.08	-0.40	-1.97	-1.15	-0.71
Kobrinetz, Joaquin J.	-0.39	0.95	-0.60	0.54	-0.04	0.19	-0.60	0.27
Kunk, Daniel	0.73	0.23	0.93	-0.24	0.70	0.91	1.16	-0.71
Lonsway, Chris	1.69	0.23	1.46	-0.24	-0.04	0.19	1.16	0.52
Lopez, Frank	-0.22	-1.35	-0.41	-1.08	-1.51	-1.25	-1.15	-2.19
May, Marianne	-0.22	0.85	-0.41	0.04	0.33	0.91	-0.29	-0.22
Pitta, Jimmy	0.49	-1.98	-1.48	-1.08	-0.40	-2.69	-0.29	0.27
Rodriguez, Jesus (Jesse)	0.49	0.23	-0.14	0.04	0.70	0.19	0.29	0.27
Sanchez, Arthur	0.02	-0.40	0.66	-0.24	2.55	0.19	0.58	0.77
Trevino, Robert	-0.46	0.23	-0.68	0.04	-0.04	0.19	-0.58	-0.22
MAXIMUM	2.17	-1.98	2.00	2.27	2.55	-2.69	2.60	2.49
MINIMUM	0.02	-0.09	-0.14	0.04	0.00	0.12	0.00	-0.22
RANGE(MAX-MIN)	2.158	-1.887	2.140	2.233	2.547	-2.811	2.596	2.706
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
N SIZE	19,000							

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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
Aguirre, Nancy P	9.00	6.60	8.50	7.80	6.50	7.00	7.00	6.60
Barrera, Tony	8.90	6.90	8.50	8.20	6.70	7.20	7.00	6.90
Bolaney, Jonathan	8.50	6.50	8.40	8.00	6.30	6.90	6.50	6.70
Campbell, Bryan	8.90	6.80	8.30	8.40	6.40	6.90	6.80	6.70
Cumberworth, Lee	7.66	7.15	8.15	7.87	6.85	6.90	6.93	6.90
DeCapite, Vanessa	9.20	6.70	9.10	8.80	5.90	6.30	6.00	6.80
Dominguez, Lucio	9.10	6.80	8.50	8.30	6.80	6.80	6.50	6.80
Foecking, Brian	8.70	6.80	8.10	7.80	6.70	6.70	6.60	6.50
Hayden, Matthew	8.20	6.78	8.19	8.01	6.66	6.74	6.76	6.48
Hurst, Kevin R.	8.00	6.20	7.40	7.20	5.80	6.70	6.20	6.00
Kobrinetz, Joaquin J.	8.14	6.74	8.15	8.23	6.63	6.76	6.72	6.46
Kunk, Daniel	8.80	6.40	8.60	8.60	6.40	7.00	6.70	7.00
Lonsway, Chris	9.20	6.80	9.10	9.00	6.70	7.20	6.60	6.70
Lopez, Frank	8.00	6.00	7.40	7.80	6.10	6.30	6.20	6.30
May, Marianne	8.60	6.80	8.50	8.10	6.60	7.20	6.90	6.90
Pitta, Jimmy	8.50	6.30	8.00	7.50	6.00	6.30	6.30	6.00
Rodriguez, Jesus (Jesse)	8.60	6.70	8.20	8.00	6.30	6.80	6.40	7.00
Sanchez, Arthur	8.50	6.80	8.50	8.30	6.60	6.80	6.80	6.80
Trevino, Robert	8.50	6.80	8.60	8.30	6.40	7.00	6.70	6.70
MAXIMUM	9.20	7.15	9.10	9.00	6.85	7.20	7.00	7.00
MINIMUM	7.66	6.00	7.40	7.20	5.80	6.30	6.00	6.00
RANGE(MAX-MIN)	1.540	1.150	1.700	1.800	1.050	0.900	1.000	1.000
MEAN	8.579	6.662	8.326	8.116	6.439	6.816	6.611	6.644
STANDARD DEVIATION	0.432	0.272	0.439	0.428	0.307	0.279	0.287	0.295
N SIZE	19,000							

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
Aguirre, Nancy P	0.97	-0.23	0.40	-0.74	0.20	0.66	1.35	-0.15
Barrera, Tony	0.74	0.88	0.40	0.20	0.85	1.38	1.35	0.87
Bolaney, Jonathan	-0.18	-0.59	0.17	-0.27	-0.45	0.30	-0.39	0.19
Campbell, Bryan	0.74	0.51	-0.06	0.66	-0.13	0.30	0.66	0.19
Cumberworth, Lee	-2.12	1.80	-0.40	-0.58	1.34	0.30	1.11	0.87
DeCapite, Vanessa	1.44	0.14	1.76	1.60	-1.76	-1.85	-2.13	0.53
Dominguez, Lucio	1.20	0.51	0.40	0.43	1.18	-0.06	-0.39	0.53
Foecking, Brian	0.28	0.51	-0.51	-0.74	0.85	-0.42	-0.04	-0.49
Hayden, Matthew	-0.88	0.44	-0.31	-0.25	0.72	-0.27	0.52	-0.56
Hurst, Kevin R.	-1.34	-1.70	-2.11	-2.14	-2.08	-0.42	-1.43	-2.18
Kobrinetz, Joaquin J.	-1.01	0.29	-0.40	0.27	0.62	-0.20	0.38	-0.62
Kunk, Daniel	0.51	-0.96	0.62	1.13	-0.13	0.66	0.31	1.21
Lonsway, Chris	1.44	0.51	1.76	2.06	0.85	1.38	-0.04	0.19
Lopez, Frank	-1.34	-2.43	-2.11	-0.74	-1.10	-1.85	-1.43	-1.17
May, Marianne	0.05	0.51	0.40	-0.04	0.53	1.38	1.01	0.87
Pitta, Jimmy	-0.18	-1.33	-0.74	-1.44	-1.43	-1.85	-1.08	-2.18
Rodriguez, Jesus (Jesse)	0.05	0.14	-0.29	-0.27	-0.45	-0.06	-0.73	1.21
Sanchez, Arthur	-0.18	0.51	0.40	0.43	0.53	-0.06	0.66	0.53
Trevino, Robert	-0.18	0.51	0.62	0.43	-0.13	0.66	0.31	0.19
MAXIMUM	-2.12	-2.43	-2.11	-2.14	-2.08	-1.85	-2.13	-2.18
MINIMUM	0.05	0.14	-0.06	-0.04	-0.13	-0.06	-0.04	-0.15
RANGE(MAX-MIN)	-2.174	-2.573	-2.049	-2.101	-1.956	-1.793	-2.088	-2.034
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
N SIZE	19,000							

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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	
Aguirre, Nancy P	7.45	7.54	7.62	7.57	7.52	7.39	7.28	7.42	
Barrera, Tony	7.53	7.26	7.41	7.39	7.45	7.15	7.07	7.19	
Bolaney, Jonathan	7.85	7.73	7.84	7.70	7.82	7.81	7.76	7.89	
Cumberworth, Lee	8.03	8.09	7.99	8.24	8.24	8.02	8.04	8.16	
Dominguez, Lucio	7.84	8.15	8.17	8.29	8.19	8.23	8.17	8.09	
Foecking, Brian	8.08	8.23	8.00	8.40	8.33	8.13	8.25	8.08	
Hayden, Matthew	7.65	7.75	7.67	7.66	7.78	7.37	7.70	7.59	
Hurst, Kevin R.	7.85	7.72	7.62	8.03	8.06	7.67	7.76	7.56	
Kobrinetz, Joaquin J.	7.61	7.68	7.75	7.68	7.82	7.76	7.73	7.72	
Kunk, Daniel	7.72	7.79	7.96	8.00	7.97	7.79	7.84	7.80	
Lonsway, Chris	7.90	7.90	7.80	8.30	8.20	8.00	8.10	8.10	
Lopez, Frank	7.85	7.85	7.80	8.25	8.04	7.82	7.73	7.74	
Rodriguez, Jesus (Jesse)	7.46	7.64	7.27	7.60	7.27	7.16	7.45	7.27	
Sanchez, Arthur	7.33	7.17	7.70	7.62	7.74	7.43	7.44	7.35	
Trevino, Robert	7.51	7.63	7.57	7.73	7.56	8.42	7.39	7.47	
MAXIMUM	8.08	8.23	8.17	8.40	8.33	8.42	8.25	8.16	
MINIMUM	7.33	7.17	7.27	7.39	7.27	7.15	7.07	7.19	
RANGE(MAX-MIN)	0.750	1.060	0.900	1.010	1.060	1.270	1.180	0.970	
MEAN	7.711	7.742	7.745	7.897	7.866	7.743	7.714	7.695	
STANDARD DEVIATION	0.225	0.292	0.235	0.332	0.318	0.384	0.341	0.321	
N SIZE	15.000								

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	
Aguirre, Nancy P	-1.16	-0.69	-0.53	-0.99	-1.09	-0.92	-1.27	-0.86	
Barrera, Tony	-0.80	-1.65	-1.42	-1.53	-1.31	-1.55	-1.89	-1.57	
Bolaney, Jonathan	0.62	-0.04	0.41	-0.60	-0.14	0.17	0.14	0.61	
Cumberworth, Lee	1.42	1.19	1.04	1.03	1.17	0.72	0.96	1.45	
Dominguez, Lucio	0.57	1.40	1.81	1.18	1.02	1.27	1.34	1.23	
Foecking, Brian	1.64	1.67	1.09	1.52	1.46	1.01	1.57	1.20	
Hayden, Matthew	-0.27	0.03	-0.32	-0.72	-0.27	-0.97	-0.04	-0.33	
Hurst, Kevin R.	0.62	-0.08	-0.53	0.40	0.61	-0.19	0.14	-0.42	
Kobrinetz, Joaquin J.	-0.45	-0.21	0.02	-0.66	-0.14	0.04	0.05	0.08	
Kunk, Daniel	0.04	0.16	0.92	0.31	0.33	0.12	0.37	0.33	
Lonsway, Chris	0.84	0.54	0.24	1.21	1.05	0.67	1.13	1.26	
Lopez, Frank	0.62	0.37	0.24	1.06	0.55	0.20	0.05	0.14	
Rodriguez, Jesus (Jesse)	-1.11	-0.35	-2.02	-0.90	-1.87	-1.52	-0.78	-1.32	
Sanchez, Arthur	-1.69	-1.96	-0.19	-0.84	-0.40	-0.82	-0.80	-1.07	
Trevino, Robert	-0.89	-0.38	-0.74	-0.50	-0.96	1.76	-0.95	-0.70	
MAXIMUM	-1.69	-1.96	-2.02	-1.53	-1.87	1.76	-1.89	-1.57	
MINIMUM	0.04	0.03	0.02	0.31	-0.14	0.04	-0.04	0.08	
RANGE(MAX-MIN)	-1.730	-1.987	-2.041	-1.840	-1.727	1.721	-1.850	-1.649	
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	
N SIZE	15.000								

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= P1-8 - SEQ. VG 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	8.63	9.28	9.40	9.25	9.36	9.44	9.46	9.25	
Barrera, Tony	9.00	9.48	9.58	9.36	9.49	9.55	9.62	9.35	
Bolaney, Jonathan	8.73	9.37	9.46	9.37	9.48	9.56	9.67	9.39	
Cales, Jonathon	8.88	9.41	9.47	9.28	9.45	9.54	9.61	9.41	
Campbell, Bryan	8.89	9.05	9.21	9.10	9.24	9.44	9.45	9.25	
Caproni, David	9.11	9.30	9.40	9.30	9.40	9.50	9.50	9.30	
Castillo, George	8.75	9.37	9.52	9.30	9.25	9.51	9.57	9.28	
Cumberworth, Lee	8.85	9.26	9.50	9.32	9.35	9.50	9.60	9.23	
DeCapite, Vanessa	8.84	9.37	9.44	9.34	9.40	9.53	9.60	9.47	
Dominguez, Lucio	9.12	9.48	9.50	9.46	9.50	9.52	9.54	9.45	
Foecking, Brian	8.68	9.31	9.46	9.35	9.46	9.50	9.60	9.40	
Greenland, Paul	8.62	9.39	9.50	9.34	9.47	9.60	9.70	9.29	
Hayden, Matthew	8.73	9.32	9.42	9.04	9.39	9.49	9.60	9.10	
Hurst, Kevin R.	8.71	9.36	9.37	9.03	9.16	9.47	9.60	9.21	
Kobrinetz, Joaquin J.	8.79	9.27	9.35	9.13	9.27	9.50	9.60	9.05	
Kunk, Daniel	9.32	9.52	9.53	9.50	9.53	9.53	9.65	9.49	
Langford, Mike	8.70	9.25	9.50	9.25	9.38	9.50	9.70	9.38	
Li, Jie	8.91	9.13	9.41	9.43	9.44	9.49	9.54	9.37	
Lonsway, Chris	8.65	9.50	9.60	9.45	9.50	9.60	9.60	9.30	
Lopez, Frank	9.02	9.21	9.59	9.37	9.49	9.58	9.70	9.32	
May, Marianne	8.99	9.27	9.50	9.39	9.44	9.53	9.55	9.39	
Rodriguez, Jesus (Jesse)	8.99	9.36	9.47	9.38	9.42	9.54	9.50	9.39	
Sanchez, Arthur	8.98	9.51	9.56	9.47	9.56	9.56	9.62	9.23	
Sanchez, Arthur (Rerate)	8.82	9.43	9.58	9.50	9.43	9.57	9.51	9.20	
Swanson, Dennis	8.14	8.85	8.88	8.83	8.87	8.90	9.61	8.78	
Trevino, Robert	8.85	9.29	9.46	9.35	9.42	9.49	9.50	9.41	
Viera, Ralph B.	8.59	9.11	9.29	9.24	9.27	9.36	9.53	9.26	
MAXIMUM	9.12	9.51	9.60	9.47	9.56	9.60	9.70	9.45	
MINIMUM	8.63	9.21	9.35	9.03	9.16	9.44	9.46	9.05	
RANGE(MAX-MIN)	0.490	0.300	0.250	0.440	0.400	0.160	0.240	0.400	
MEAN	8.856	9.352	9.489	9.328	9.417	9.520	9.583	9.299	
STANDARD DEVIATION	0.165	0.110	0.085	0.133	0.114	0.050	0.062	0.112	
N SIZE	27.000								

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= P1-8 - SEQ. VG PISTONS

P1-8 Yi Values

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

Rater	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI
Aguirre, Nancy P	-1.37	-0.65	-1.05	-0.58	-0.50	-1.60	-1.96	-0.44
Barrera, Tony	0.87	1.17	1.07	0.24	0.64	0.60	0.60	0.45
Bolaney, Jonathan	-0.76	0.17	-0.34	0.32	0.56	0.80	1.40	0.81
Cales, Jonathon	0.15	0.53	-0.23	-0.36	0.29	0.40	0.44	0.99
Campbell, Bryan	0.21	-2.75	-3.29	-1.71	-1.55	-1.60	-2.12	-0.44
Caproni, David	1.54	-0.47	-1.05	-0.21	-0.15	-0.40	-1.32	0.01
Castillo, George	-0.64	0.17	0.36	-0.21	-1.46	-0.20	-0.20	-0.17
Cumberworth, Lee	-0.04	-0.84	0.13	-0.06	-0.59	-0.40	0.28	-0.62
DeCapite, Vanessa	-0.10	0.17	-0.58	0.09	-0.15	0.20	0.28	1.52
Dominguez, Lucio	1.60	1.17	0.13	1.00	0.73	0.00	-0.68	1.34
Foecking, Brian	-1.06	-0.38	-0.34	0.17	0.38	-0.40	0.28	0.90
Greenland, Paul	-1.43	0.35	0.13	0.09	0.47	1.60	1.88	-0.08
Hayden, Matthew	-0.76	-0.29	-0.81	-2.16	-0.23	-0.60	0.28	-1.78
Hurst, Kevin R.	-0.88	0.08	-1.40	-2.24	-2.25	-1.00	0.28	-0.79
Kobrinetz, Joaquin J.	-0.40	-0.74	-1.64	-1.49	-1.29	-0.40	0.28	-2.22
Kunk, Daniel	2.81	1.53	0.48	1.30	1.00	0.20	1.08	1.70
Langford, Mike	-0.94	-0.93	0.13	-0.58	-0.32	-0.40	1.88	0.72
Li, Jie	0.33	-2.02	-0.93	0.77	0.20	-0.60	-0.68	0.63
Lonsway, Chris	-1.24	1.35	1.31	0.92	0.73	1.60	0.28	0.01
Lopez, Frank	0.99	-1.29	1.19	0.32	0.64	1.20	1.88	0.19
May, Marianne	0.81	-0.74	0.13	0.47	0.20	0.20	-0.52	0.81
Rodriguez, Jesus (Jesse)	0.81	0.08	-0.23	0.40	0.03	0.40	-1.32	0.81
Sanchez, Arthur	0.75	1.44	0.83	1.07	1.26	0.80	0.60	-0.62
Sanchez, Arthur (Rerate)	-0.22	0.71	1.07	1.30	0.12	1.00	-1.16	-0.88
Swanson, Dennis	-4.33	-4.57	-7.17	-3.74	-4.80	-12.40	0.44	-4.63
Trevino, Robert	-0.04	-0.56	-0.34	0.17	0.03	-0.60	-1.32	0.99
Viera, Ralph B.	-1.61	-2.20	-2.35	-0.66	-1.29	-3.20	-0.84	-0.35
MAXIMUM	1.60	1.44	-1.64	-2.24	-2.25	-1.60	-1.96	-2.22
MINIMUM	-0.04	0.08	0.13	-0.06	0.03	0.00	0.28	0.01
RANGE(MAX-MIN)	1.633	1.366	-1.767	-2.183	-2.283	-1.600	-2.244	-2.228
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	0.926	1.000	1.000
N SIZE	27.000							

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= Q1-8 - SEQ. VG 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	9.14	9.13	9.19	8.21	8.64	8.96	8.67	9.59
Barrera, Tony	8.72	8.71	8.77	7.42	8.05	8.46	8.11	9.14
Bolaney, Jonathan	9.06	9.09	9.00	8.05	8.52	8.80	8.67	9.36
Campbell, Bryan	8.69	8.56	8.83	8.12	8.24	8.90	8.92	9.56
Cumberworth, Lee	8.91	8.84	8.92	8.32	8.29	8.59	8.56	9.35
DeCapite, Vanessa	8.93	8.99	8.97	7.80	7.94	8.57	8.35	9.74
Dominguez, Lucio	9.27	9.09	9.13	8.25	8.45	8.94	8.74	9.32
Foecking, Brian	8.95	8.86	9.04	7.10	8.26	8.69	8.26	9.56
Greenland, Paul	9.12	9.05	9.03	7.88	8.20	8.72	8.55	9.60
Hurst, Kevin R.	9.02	8.91	9.04	8.06	8.28	8.76	8.67	9.30
Kobrinetz, Joaquin J.	8.85	8.91	9.01	7.54	8.39	8.44	8.33	9.45
Langford, Mike	9.16	9.14	9.06	7.95	8.28	8.88	8.25	9.70
Li, Jie	9.17	9.19	9.21	8.01	8.62	8.82	8.70	9.52
Lonsway, Chris	8.85	8.75	9.03	7.49	8.13	8.51	7.92	9.40
Lopez, Frank	8.90	9.06	9.03	7.92	8.44	8.79	8.60	9.60
May, Marianne	9.14	9.09	9.19	7.95	8.63	8.76	8.66	9.51
Sanchez, Arthur	9.19	9.11	9.12	7.86	8.41	8.83	8.84	9.60
Swanson, Dennis	8.86	8.93	8.46	7.77	7.82	8.89	7.98	9.40
Trevino, Robert	9.04	9.05	9.15	8.06	8.49	8.66	8.61	9.52
Viera, Ralph B.	8.87	9.11	8.72	7.50	7.89	8.36	8.59	9.05
MAXIMUM	9.27	9.13	9.19	8.32	8.64	8.96	8.84	9.60
MINIMUM	8.72	8.71	8.77	7.10	8.05	8.44	7.92	9.14
RANGE(MAX-MIN)	0.550	0.420	0.420	1.220	0.590	0.520	0.920	0.460
MEAN	8.998	8.959	9.052	7.848	8.372	8.699	8.498	9.445
STANDARD DEVIATION	0.164	0.147	0.120	0.380	0.180	0.174	0.279	0.146
N SIZE	20.000							

Part ID= Q1-8 - SEQ. VG PISTONS

Q1-8 YI Values

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

Rater	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI
Aguirre, Nancy P	0.87	1.16	1.15	0.95	1.49	1.50	0.62	1.00
Barrera, Tony	-1.70	-1.69	-2.35	-1.13	-1.79	-1.38	-1.39	-2.10
Bolaney, Jonathan	0.38	0.89	-0.43	0.53	0.83	0.58	0.62	-0.58
Campbell, Bryan	-1.89	-2.71	-1.85	0.72	-0.73	1.16	1.51	0.79
Cumberworth, Lee	-0.54	-0.81	-1.10	1.24	-0.45	-0.63	0.22	-0.65
DeCapite, Vanessa	-0.42	0.21	-0.68	-0.13	-2.40	-0.74	-0.53	2.03
Dominguez, Lucio	1.66	0.89	0.65	1.06	0.44	1.39	0.87	-0.86
Foecking, Brian	-0.30	-0.67	-0.10	-1.97	-0.62	-0.05	-0.85	0.79
Greenland, Paul	0.74	0.62	-0.18	0.08	-0.96	0.12	0.19	1.07
Hurst, Kevin R.	0.13	-0.33	-0.10	0.56	-0.51	0.35	0.62	-1.00
Kobrinetz, Joaquin J.	-0.91	-0.33	-0.35	-0.81	0.10	-1.49	-0.60	0.03
Langford, Mike	0.99	1.23	0.07	0.27	-0.51	1.04	-0.89	1.75
Li, Jie	1.05	1.57	1.32	0.43	1.38	0.70	0.73	0.52
Lonsway, Chris	-0.91	-1.42	-0.18	-0.94	-1.35	-1.09	-2.07	-0.31
Lopez, Frank	-0.60	0.68	-0.18	0.19	0.38	0.52	0.37	1.07
May, Marianne	0.87	0.89	1.15	0.27	1.44	0.35	0.58	0.45
Sanchez, Arthur	1.17	1.02	0.57	0.03	0.21	0.75	1.23	1.07
Swanson, Dennis	-0.85	-0.20	-7.43	-0.21	-3.07	1.10	-1.85	-0.31
Trevino, Robert	0.25	0.62	0.82	0.56	0.66	-0.23	0.40	0.52
Viera, Ralph B.	-0.78	1.02	-2.76	-0.92	-2.68	-1.95	0.33	-2.71
MAXIMUM	-1.70	-1.69	-2.35	-1.97	-1.79	1.50	-2.07	-2.10
MINIMUM	0.13	-0.33	-0.10	0.03	0.10	-0.05	0.22	0.03
RANGE(MAX-MIN)	-1.835	-1.356	-2.250	-2.001	-1.893	1.553	-2.293	-2.131
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
N SIZE	20.000							

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= R1-8 - SEQ. VH 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	9.27	9.15	9.04	9.49	8.85	8.95	8.92	8.81	
Barrera, Tony	9.32	9.14	9.25	9.57	8.83	9.01	9.09	9.08	
Cales, Jonathon	9.16	8.96	9.05	9.61	8.81	8.96	8.84	8.71	
Caproni, David	9.28	8.83	9.08	9.56	8.40	8.93	8.93	9.20	
Castillo, George	9.28	9.05	9.25	9.59	8.82	8.95	9.14	8.82	
Cumberworth, Lee	9.35	9.24	9.28	9.74	8.98	9.03	8.50	9.24	
Dominguez, Lucio	9.32	9.25	9.26	9.42	8.90	8.99	9.00	8.97	
Foecking, Brian	9.22	9.12	9.14	9.65	8.54	8.66	8.73	8.96	
Greenland, Paul	9.06	8.88	9.01	9.48	8.68	8.78	8.78	8.78	
Hayden, Matthew	9.38	9.23	9.52	9.79	9.04	9.18	9.41	9.27	
Hurst, Kevin R.	8.93	8.72	8.73	9.09	8.03	8.64	8.63	8.64	
Kobrinetz, Joaquin J.	9.32	9.23	9.31	9.72	8.94	9.12	9.13	9.09	
Kunk, Daniel	9.30	9.18	9.32	9.73	8.87	9.15	9.19	9.26	
Langford, Mike	8.91	8.80	8.97	9.51	8.60	8.70	8.70	8.73	
Lonsway, Chris	9.11	8.81	9.05	9.61	8.68	8.80	8.67	8.82	
Lopez, Frank	9.18	9.15	9.13	9.54	8.56	8.83	8.90	8.92	
May, Marianne	9.29	9.18	9.16	9.47	8.70	8.88	8.95	8.83	
Rodriguez, Jesus (Jesse)	9.31	9.22	9.20	9.43	8.71	8.86	8.92	8.81	
Sanchez, Arthur	9.57	9.53	9.63	9.78	9.04	9.26	9.25	9.31	
Sanchez, Arthur (Rerate)	9.41	9.35	9.38	9.59	9.09	8.86	9.24	9.15	
Swanson, Dennis	8.89	8.82	8.86	9.26	8.67	8.87	8.78	8.85	
Trevino, Robert	9.15	9.11	9.14	9.40	8.57	8.76	8.89	8.87	
Viera, Ralph B.	9.29	9.10	9.15	9.43	8.71	8.84	9.00	8.98	
MAXIMUM	9.57	9.53	9.63	9.78	9.04	9.26	9.25	9.31	
MINIMUM	8.93	8.72	8.73	9.09	8.03	8.64	8.50	8.64	
RANGE(MAX-MIN)	0.640	0.810	0.900	0.690	1.010	0.620	0.750	0.670	
MEAN	9.253	9.136	9.177	9.540	8.718	8.911	8.888	8.962	
STANDARD DEVIATION	0.156	0.207	0.210	0.189	0.276	0.185	0.221	0.191	
N SIZE	23.000								



## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= R1-8 - SEQ. VH 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	0.11	0.07	-0.65	-0.26	0.48	0.21	0.14	-0.79
Barrera, Tony	0.43	0.02	0.35	0.16	0.40	0.54	0.91	0.62
Cales, Jonathon	-0.59	-0.85	-0.60	0.37	0.33	0.27	-0.22	-1.31
Caproni, David	0.18	-1.48	-0.46	0.11	-1.15	0.10	0.19	1.24
Castillo, George	0.18	-0.42	0.35	0.26	0.37	0.21	1.14	-0.74
Cumberworth, Lee	0.63	0.50	0.49	1.06	0.95	0.64	-1.76	1.45
Dominguez, Lucio	0.43	0.55	0.40	-0.64	0.66	0.43	0.51	0.04
Foecking, Brian	-0.21	-0.08	-0.17	0.58	-0.65	-1.36	-0.72	-0.01
Greenland, Paul	-1.24	-1.24	-0.79	-0.32	-0.14	-0.71	-0.49	-0.95
Hayden, Matthew	0.82	0.46	1.63	1.32	1.17	1.46	2.36	1.61
Hurst, Kevin R.	-2.07	-2.01	-2.13	-2.38	-2.49	-1.46	-1.17	-1.68
Kobrinetz, Joaquin J.	0.43	0.46	0.63	0.95	0.80	1.13	1.09	0.67
Kunk, Daniel	0.31	0.21	0.68	1.01	0.55	1.29	1.36	1.56
Langford, Mike	-2.20	-1.62	-0.98	-0.16	-0.43	-1.14	-0.85	-1.21
Lonsway, Chris	-0.92	-1.58	-0.60	0.37	-0.14	-0.60	-0.99	-0.74
Lopez, Frank	-0.47	0.07	-0.22	0.00	-0.57	-0.44	0.05	-0.22
May, Marianne	0.24	0.21	-0.08	-0.37	-0.07	-0.17	0.28	-0.69
Rodriguez, Jesus (Jesse)	0.37	0.41	0.11	-0.58	-0.03	-0.27	0.14	-0.79
Sanchez, Arthur	2.04	1.91	2.16	1.27	1.17	1.89	1.64	1.82
Sanchez, Arthur (Rerate)	1.01	1.04	0.97	0.26	1.35	-0.27	1.59	0.98
Swanson, Dennis	-2.33	-1.53	-1.51	-1.48	-0.18	-0.22	-0.49	-0.58
Trevino, Robert	-0.66	-0.12	-0.17	-0.74	-0.54	-0.82	0.01	-0.48
Viera, Ralph B.	0.24	-0.17	-0.13	-0.58	-0.03	-0.38	0.51	0.10
MAXIMUM	-2.07	-2.01	2.16	-2.38	-2.49	1.89	-1.76	1.82
MINIMUM	0.11	0.02	-0.08	0.00	-0.07	-0.17	0.01	-0.01
RANGE(MAX-MIN)	-2.183	-2.031	2.237	-2.384	-2.427	2.055	-1.764	1.828
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
N SIZE	23.000							

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= S1-8 - SEQ. VH 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	9.78	9.30	8.91	9.07	9.73	9.76	8.71	9.74
Barrera, Tony	9.89	9.19	8.35	8.58	9.79	9.87	8.47	9.83
Bolaney, Jonathan	9.74	9.09	8.41	8.49	9.80	9.82	8.48	9.78
Cales, Jonathon	9.85	9.06	8.53	8.85	9.74	9.80	7.72	9.72
Caproni, David	9.80	9.36	8.73	8.98	9.80	9.80	8.78	9.70
Castillo, George	9.87	9.31	8.39	8.73	9.82	9.84	8.56	9.82
Cumberworth, Lee	9.86	9.13	8.15	8.74	9.78	9.84	9.01	9.78
DeCapite, Vanessa	9.88	9.17	8.30	8.56	9.84	9.85	8.40	9.83
Dominguez, Lucio	9.78	9.45	9.05	9.24	9.76	9.76	9.13	9.75
Foecking, Brian	9.75	8.97	8.57	8.59	9.77	9.77	8.60	9.66
Hayden, Matthew	9.83	9.12	8.77	8.84	9.77	9.79	9.07	9.79
Hurst, Kevin R.	9.78	9.00	8.10	8.24	9.44	9.35	8.11	9.51
Kobrinetz, Joaquin J.	9.84	9.20	8.46	8.69	9.82	9.84	8.58	9.81
Kunk, Daniel	9.86	9.20	8.60	8.64	9.79	9.83	8.68	9.76
Li, Jie	9.77	9.21	8.51	8.71	9.69	9.74	8.67	9.72
Lonsway, Chris	9.85	8.89	8.52	8.60	9.75	9.80	8.40	9.70
Lopez, Frank	9.84	9.07	8.54	8.70	9.80	9.79	8.60	9.80
May, Marianne	9.78	9.13	8.62	8.70	9.73	9.77	8.71	9.76
Rodriguez, Jesus (Jesse)	9.78	9.14	8.60	8.72	9.74	9.76	8.72	9.74
Sanchez, Arthur (Rerate)	9.82	9.18	8.63	8.99	9.78	9.81	8.92	9.80
Viera, Ralph B.	9.67	9.24	8.45	8.85	9.40	9.60	8.66	9.50
MAXIMUM	9.89	9.45	9.05	9.24	9.82	9.87	9.13	9.83
MINIMUM	9.75	8.89	8.10	8.24	9.44	9.35	8.11	9.51
RANGE(MAX-MIN)	0.140	0.560	0.950	1.000	0.380	0.520	1.020	0.320
MEAN	9.815	9.133	8.527	8.715	9.737	9.755	8.632	9.734
STANDARD DEVIATION	0.050	0.164	0.296	0.274	0.108	0.147	0.291	0.094
N SIZE	21.000							

Part ID= S1-8 - SEQ. VH PISTONS

S1-8 YI Values

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

Rater	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI
Aguirre, Nancy P	-0.70	1.02	1.29	1.30	-0.06	0.03	0.27	0.06
Barrera, Tony	1.50	0.35	-0.60	-0.49	0.49	0.78	-0.56	1.02
Bolaney, Jonathan	-1.50	-0.26	-0.39	-0.82	0.58	0.44	-0.52	0.49
Cales, Jonathon	0.70	-0.44	0.01	0.49	0.03	0.31	-3.14	-0.15
Caproni, David	-0.30	1.38	0.68	0.97	0.58	0.31	0.51	-0.36
Castillo, George	1.10	1.08	-0.46	0.05	0.77	0.58	-0.25	0.92
Cumberworth, Lee	0.90	-0.02	-1.27	0.09	0.40	0.58	1.30	0.49
DeCapite, Vanessa	1.30	0.23	-0.77	-0.57	0.95	0.64	-0.80	1.02
Dominguez, Lucio	-0.70	1.93	1.76	1.92	0.21	0.03	1.71	0.17
Foecking, Brian	-1.30	-0.99	0.15	-0.46	0.30	0.10	-0.11	-0.79
Hayden, Matthew	0.30	-0.08	0.82	0.46	0.30	0.24	1.51	0.60
Hurst, Kevin R.	-0.70	-0.81	-1.44	-1.73	-2.74	-2.75	-1.80	-2.39
Kobrinetz, Joaquin J.	0.50	0.41	-0.23	-0.09	0.77	0.58	-0.18	0.81
Kunk, Daniel	0.90	0.41	0.25	-0.27	0.49	0.51	0.17	0.28
Li, Jie	-0.90	0.47	-0.06	-0.02	-0.43	-0.10	0.13	-0.15
Lonsway, Chris	0.70	-1.48	-0.02	-0.42	0.12	0.31	-0.80	-0.36
Lopez, Frank	0.50	-0.38	0.04	-0.05	0.58	0.24	-0.11	0.70
May, Marianne	-0.70	-0.02	0.31	-0.05	-0.06	0.10	0.27	0.28
Rodriguez, Jesus (Jesse)	-0.70	0.04	0.25	0.02	0.03	0.03	0.30	0.06
Sanchez, Arthur (Rerate)	0.10	0.29	0.35	1.00	0.40	0.37	0.99	0.70
Viera, Ralph B.	-2.90	0.65	-0.26	0.49	-3.11	-1.05	0.10	-2.49
MAXIMUM	1.50	1.93	1.76	1.92	-2.74	-2.75	-1.80	-2.39
MINIMUM	0.50	-0.02	-0.02	-0.05	-0.06	0.03	-0.11	0.06
RANGE(MAX-MIN)	1.000	1.946	1.788	1.970	-2.677	-2.782	-1.686	-2.451
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	0.925	1.000	1.000	1.000	1.000	1.000	1.000	1.000
N SIZE	21.000							

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VOP - OIL PAN SLUDGE

Rated Values

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

Rater	TOTALS	
Aguirre, Nancy P	6.51	
Barrera, Tony	6.45	
Bolaney, Jonathan	6.35	
Cales, Jonathon	6.46	
Campbell, Bryan	6.46	
Caproni, David	6.48	
Castillo, George	6.44	
Cumberworth, Lee	6.53	
DeCapite, Vanessa	6.34	
Dominguez, Lucio	6.55	
Foecking, Brian	6.54	
Greenland, Paul	6.51	
Hayden, Matthew	6.48	
Hurst, Kevin R.	6.29	
Kobrinetz, Joaquin J.	6.41	
Kunk, Daniel	6.48	
Langford, Mike	6.51	
Li, Jie	6.27	
Lonsway, Chris	6.56	
Lopez, Frank	6.56	
May, Marianne	6.42	
Rodriguez, Jesus (Jesse)	6.44	
Sanchez, Arthur	6.33	
Trevino, Robert	6.42	
Veiga, Victor	6.53	
Viera, Ralph B.	6.14	
MAXIMUM	6.56	
MINIMUM	6.14	
RANGE(MAX-MIN)	0.420	
MEAN	6.441	
STANDARD DEVIATION	0.102	
N SIZE	26.000	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VOP - OIL PAN SLUDGE

VOP YI Values

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

Rater	TOTALS	
Aguirre, Nancy P	0.68	
Barrera, Tony	0.09	
Bolaney, Jonathan	-0.89	
Cales, Jonathon	0.19	
Campbell, Bryan	0.19	
Caproni, David	0.38	
Castillo, George	-0.01	
Cumberworth, Lee	0.87	
DeCapite, Vanessa	-0.99	
Dominguez, Lucio	1.07	
Foecking, Brian	0.97	
Greenland, Paul	0.68	
Hayden, Matthew	0.38	
Hurst, Kevin R.	-1.48	
Kobrinetz, Joaquin J.	-0.30	
Kunk, Daniel	0.38	
Langford, Mike	0.68	
Li, Jie	-1.67	
Lonsway, Chris	1.17	
Lopez, Frank	1.17	
May, Marianne	-0.20	
Rodriguez, Jesus (Jesse)	-0.01	
Sanchez, Arthur	-1.08	
Trevino, Robert	-0.20	
Veiga, Victor	0.87	
Viera, Ralph B.	-2.94	
MAXIMUM	-2.94	
MINIMUM	-0.01	
RANGE(MAX-MIN)	-2.937	
MEAN	0.000	
STANDARD DEVIATION	1.000	
N SIZE	26.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VOPB - OIL PAN BFL SLUDGE

Rated Values

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

Rater	TOTALS	
Aguirre, Nancy P	7.32	
Barrera, Tony	7.26	
Bolaney, Jonathan	7.11	
Cales, Jonathon	7.00	
Campbell, Bryan	7.32	
Caproni, David	7.19	
Castillo, George	7.09	
Cumberworth, Lee	7.18	
DeCapite, Vanessa	7.12	
Dominguez, Lucio	7.30	
Foecking, Brian	7.18	
Greenland, Paul	7.01	
Hayden, Matthew	7.06	
Hurst, Kevin R.	6.90	
Kobrinetz, Joaquin J.	7.09	
Kunk, Daniel	7.09	
Langford, Mike	7.14	
Li, Jie	6.94	
Lonsway, Chris	7.23	
Lopez, Frank	7.30	
May, Marianne	7.04	
Rodriguez, Jesus (Jesse)	6.99	
Sanchez, Arthur	7.07	
Trevino, Robert	7.07	
Veiga, Victor	7.16	
Viera, Ralph B.	6.74	
MAXIMUM	7.32	
MINIMUM	6.74	
RANGE(MAX-MIN)	0.580	
MEAN	7.112	
STANDARD DEVIATION	0.138	
N SIZE	26.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VOPB - OIL PAN BFL SLUDGE

VOPB Y1 Values

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

Rater	TOTALS	
Aguirre, Nancy P	1.51	
Barrera, Tony	1.08	
Bolaney, Jonathan	-0.01	
Cales, Jonathon	-0.81	
Campbell, Bryan	1.51	
Caproni, David	0.57	
Castillo, George	-0.16	
Cumberworth, Lee	0.50	
DeCapite, Vanessa	0.06	
Dominguez, Lucio	1.37	
Foecking, Brian	0.50	
Greenland, Paul	-0.74	
Hayden, Matthew	-0.37	
Hurst, Kevin R.	-1.53	
Kobrinetz, Joaquin J.	-0.16	
Kunk, Daniel	-0.16	
Langford, Mike	0.21	
Li, Jie	-1.24	
Lonsway, Chris	0.86	
Lopez, Frank	1.37	
May, Marianne	-0.52	
Rodriguez, Jesus (Jesse)	-0.88	
Sanchez, Arthur	-0.30	
Trevino, Robert	-0.30	
Veiga, Victor	0.35	
Viera, Ralph B.	-2.70	
MAXIMUM	-2.70	
MINIMUM	-0.01	
RANGE(MAX-MIN)	-2.684	
MEAN	0.000	
STANDARD DEVIATION	1.000	
N SIZE	26.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VRCBL - RC BFL SLUDGE L

Rated Values

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

Rater	TOTALS	
Aguirre, Nancy P	8.19	
Barrera, Tony	7.44	
Bolaney, Jonathan	8.19	
Cales, Jonathon	8.08	
Campbell, Bryan	8.36	
Caproni, David	7.94	
Castillo, George	7.82	
Cumberworth, Lee	8.22	
DeCapite, Vanessa	8.16	
Dominguez, Lucio	8.15	
Foecking, Brian	8.12	
Greenland, Paul	8.02	
Hayden, Matthew	8.27	
Hurst, Kevin R.	7.87	
Kobrinetz, Joaquin J.	8.01	
Kunk, Daniel	8.19	
Langford, Mike	7.95	
Li, Jie	7.70	
Lonsway, Chris	8.19	
Lopez, Frank	7.91	
May, Marianne	7.63	
Rodriguez, Jesus (Jesse)	7.41	
Sanchez, Arthur	7.61	
Trevino, Robert	7.61	
Veiga, Victor	8.19	
Viera, Ralph B.	7.55	
MAXIMUM	8.36	
MINIMUM	7.41	
RANGE(MAX-MIN)	0.950	
MEAN	7.953	
STANDARD DEVIATION	0.276	
N SIZE	26.000	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VRCBL - RC BFL SLUDGE L

VRCBL Yi Values

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

Rater	TOTALS	
Aguirre, Nancy P	0.86	
Barrera, Tony	-1.86	
Bolaney, Jonathan	0.86	
Cales, Jonathon	0.46	
Campbell, Bryan	1.48	
Caproni, David	-0.05	
Castillo, George	-0.48	
Cumberworth, Lee	0.97	
DeCapite, Vanessa	0.75	
Dominguez, Lucio	0.71	
Foecking, Brian	0.61	
Greenland, Paul	0.24	
Hayden, Matthew	1.15	
Hurst, Kevin R.	-0.30	
Kobrinetz, Joaquin J.	0.21	
Kunk, Daniel	0.86	
Langford, Mike	-0.01	
Li, Jie	-0.92	
Lonsway, Chris	0.86	
Lopez, Frank	-0.16	
May, Marianne	-1.17	
Rodriguez, Jesus (Jesse)	-1.97	
Sanchez, Arthur	-1.24	
Trevino, Robert	-1.24	
Veiga, Victor	0.86	
Viera, Ralph B.	-1.46	
MAXIMUM	-1.97	
MINIMUM	-0.01	
RANGE(MAX-MIN)	-1.958	
MEAN	0.000	
STANDARD DEVIATION	1.000	
N SIZE	26.000	



## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VRCBR - RC BFL SLUDGE R

Rated Values

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

Rater	TOTALS	
Aguirre, Nancy P	9.00	
Barrera, Tony	8.02	
Bolaney, Jonathan	8.12	
Cales, Jonathon	8.09	
Campbell, Bryan	8.36	
Caproni, David	8.12	
Castillo, George	8.05	
Cumberworth, Lee	8.19	
DeCapite, Vanessa	8.12	
Dominguez, Lucio	8.94	
Foecking, Brian	8.22	
Greenland, Paul	8.75	
Hayden, Matthew	8.66	
Hurst, Kevin R.	8.43	
Kobrinetz, Joaquin J.	8.55	
Kunk, Daniel	8.16	
Langford, Mike	8.70	
Li, Jie	8.12	
Lonsway, Chris	8.89	
Lopez, Frank	8.52	
May, Marianne	7.98	
Rodriguez, Jesus (Jesse)	7.95	
Sanchez, Arthur	8.01	
Trevino, Robert	7.98	
Veiga, Victor	8.12	
Viera, Ralph B.	8.38	
MAXIMUM	9.00	
MINIMUM	7.95	
RANGE(MAX-MIN)	1.050	
MEAN	8.324	
STANDARD DEVIATION	0.326	
N SIZE	26.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VRCBR - RC BFL SLUDGE R

VRCBR Yi Values

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

Rater	TOTALS	
Aguirre, Nancy P	2.07	
Barrera, Tony	-0.93	
Bolaney, Jonathan	-0.63	
Cales, Jonathon	-0.72	
Campbell, Bryan	0.11	
Caproni, David	-0.63	
Castillo, George	-0.84	
Cumberworth, Lee	-0.41	
DeCapite, Vanessa	-0.63	
Dominguez, Lucio	1.89	
Foecking, Brian	-0.32	
Greenland, Paul	1.31	
Hayden, Matthew	1.03	
Hurst, Kevin R.	0.32	
Kobrinetz, Joaquin J.	0.69	
Kunk, Daniel	-0.50	
Langford, Mike	1.15	
Li, Jie	-0.63	
Lonsway, Chris	1.73	
Lopez, Frank	0.60	
May, Marianne	-1.06	
Rodriguez, Jesus (Jesse)	-1.15	
Sanchez, Arthur	-0.96	
Trevino, Robert	-1.06	
Veiga, Victor	-0.63	
Viera, Ralph B.	0.17	
MAXIMUM	2.07	
MINIMUM	0.11	
RANGE(MAX-MIN)	1.963	
MEAN	0.000	
STANDARD DEVIATION	1.000	
N SIZE	26.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VRCBVL - RC BFL VARN L

Rated Values

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

Rater	AVERAG	
Aguirre, Nancy P	9.70	
Barrera, Tony	9.70	
Bolaney, Jonathan	9.64	
Cales, Jonathon	9.77	
Campbell, Bryan	9.77	
Caproni, David	9.75	
Castillo, George	9.84	
Cumberworth, Lee	9.71	
DeCapite, Vanessa	9.75	
Dominguez, Lucio	9.70	
Foecking, Brian	9.68	
Greenland, Paul	9.70	
Hayden, Matthew	9.69	
Hurst, Kevin R.	9.72	
Kobrinetz, Joaquin J.	9.63	
Kunk, Daniel	9.78	
Langford, Mike	9.80	
Li, Jie	9.70	
Lonsway, Chris	9.66	
Lopez, Frank	9.85	
May, Marianne	9.74	
Rodriguez, Jesus (Jesse)	9.82	
Sanchez, Arthur	9.70	
Trevino, Robert	9.70	
Veiga, Victor	9.80	
Viera, Ralph B.	9.60	
MAXIMUM	9.85	
MINIMUM	9.63	
RANGE(MAX-MIN)	0.220	
MEAN	9.708	
STANDARD DEVIATION	0.053	
N SIZE	26.000	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VRCBVL - RC BFL VARN L

VRCBVL Yi Values

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

Rater	AVERAG	
Aguirre, Nancy P	-0.14	
Barrera, Tony	-0.14	
Bolaney, Jonathan	-1.28	
Cales, Jonathon	1.18	
Campbell, Bryan	1.18	
Caproni, David	0.80	
Castillo, George	2.50	
Cumberworth, Lee	0.05	
DeCapite, Vanessa	0.80	
Dominguez, Lucio	-0.14	
Foecking, Brian	-0.52	
Greenland, Paul	-0.14	
Hayden, Matthew	-0.33	
Hurst, Kevin R.	0.24	
Kobrinetz, Joaquin J.	-1.46	
Kunk, Daniel	1.37	
Langford, Mike	1.75	
Li, Jie	-0.14	
Lonsway, Chris	-0.90	
Lopez, Frank	2.69	
May, Marianne	0.61	
Rodriguez, Jesus (Jesse)	2.13	
Sanchez, Arthur	-0.14	
Trevino, Robert	-0.14	
Veiga, Victor	1.75	
Viera, Ralph B.	-2.03	
MAXIMUM	2.69	
MINIMUM	0.05	
RANGE(MAX-MIN)	2.645	
MEAN	0.000	
STANDARD DEVIATION	1.000	
N SIZE	26.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VRCBVR - RC BFL VARN R

Rated Values

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

Rater	AVERAG	
Aguirre, Nancy P	9.70	
Barrera, Tony	9.70	
Bolaney, Jonathan	9.76	
Cales, Jonathon	9.77	
Campbell, Bryan	9.74	
Caproni, David	9.80	
Castillo, George	9.87	
Cumberworth, Lee	9.80	
DeCapite, Vanessa	9.73	
Dominguez, Lucio	9.70	
Foecking, Brian	9.79	
Greenland, Paul	9.75	
Hayden, Matthew	9.77	
Hurst, Kevin R.	9.73	
Kobrinetz, Joaquin J.	9.80	
Kunk, Daniel	9.77	
Langford, Mike	9.73	
Li, Jie	9.73	
Lonsway, Chris	9.69	
Lopez, Frank	9.70	
May, Marianne	9.76	
Rodriguez, Jesus (Jesse)	9.85	
Sanchez, Arthur	9.70	
Trevino, Robert	9.70	
Veiga, Victor	9.80	
Viera, Ralph B.	9.63	
MAXIMUM	9.80	
MINIMUM	9.69	
RANGE(MAX-MIN)	0.110	
MEAN	9.731	
STANDARD DEVIATION	0.050	
N SIZE	26.000	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VRCBVR - RC BFL VARN R

VRCBVR Yi Values

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

Rater	AVERAG	
Aguirre, Nancy P	-0.62	
Barrera, Tony	-0.62	
Bolaney, Jonathan	0.58	
Cales, Jonathon	0.78	
Campbell, Bryan	0.18	
Caproni, David	1.38	
Castillo, George	2.78	
Cumberworth, Lee	1.38	
DeCapite, Vanessa	-0.02	
Dominguez, Lucio	-0.62	
Foecking, Brian	1.18	
Greenland, Paul	0.38	
Hayden, Matthew	0.78	
Hurst, Kevin R.	-0.02	
Kobrinetz, Joaquin J.	1.38	
Kunk, Daniel	0.78	
Langford, Mike	-0.02	
Li, Jie	-0.02	
Lonsway, Chris	-0.82	
Lopez, Frank	-0.62	
May, Marianne	0.58	
Rodriguez, Jesus (Jesse)	2.38	
Sanchez, Arthur	-0.62	
Trevino, Robert	-0.62	
Veiga, Victor	1.38	
Viera, Ralph B.	-2.02	
MAXIMUM	1.38	
MINIMUM	-0.02	
RANGE(MAX-MIN)	1.400	
MEAN	0.000	
STANDARD DEVIATION	0.880	
N SIZE	26.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VRCL - RC SLUDGE L

Rated Values

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

Rater	TOTALS	
Aguirre, Nancy P	9.41	
Barrera, Tony	9.32	
Bolaney, Jonathan	9.33	
Cales, Jonathon	9.30	
Campbell, Bryan	9.26	
Caproni, David	9.19	
Castillo, George	9.07	
Cumberworth, Lee	9.19	
DeCapite, Vanessa	9.52	
Dominguez, Lucio	9.37	
Foecking, Brian	9.36	
Greenland, Paul	9.38	
Hayden, Matthew	9.22	
Hurst, Kevin R.	9.39	
Kobrinetz, Joaquin J.	9.13	
Kunk, Daniel	9.26	
Langford, Mike	9.43	
Li, Jie	9.42	
Lonsway, Chris	9.43	
Lopez, Frank	9.29	
May, Marianne	9.16	
Rodriguez, Jesus (Jesse)	9.32	
Sanchez, Arthur	9.20	
Trevino, Robert	9.28	
Veiga, Victor	9.30	
Viera, Ralph B.	9.03	
MAXIMUM	9.52	
MINIMUM	9.03	
RANGE(MAX-MIN)	0.490	
MEAN	9.291	
STANDARD DEVIATION	0.118	
N SIZE	26.000	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VRCL - RC SLUDGE L

VRCL Yi Values

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

Rater	TOTALS	
Aguirre, Nancy P	1.01	
Barrera, Tony	0.25	
Bolaney, Jonathan	0.33	
Cales, Jonathon	0.08	
Campbell, Bryan	-0.26	
Caproni, David	-0.85	
Castillo, George	-1.87	
Cumberworth, Lee	-0.85	
DeCapite, Vanessa	1.94	
Dominguez, Lucio	0.67	
Foecking, Brian	0.59	
Greenland, Paul	0.75	
Hayden, Matthew	-0.60	
Hurst, Kevin R.	0.84	
Kobrinetz, Joaquin J.	-1.36	
Kunk, Daniel	-0.26	
Langford, Mike	1.18	
Li, Jie	1.09	
Lonsway, Chris	1.18	
Lopez, Frank	-0.01	
May, Marianne	-1.11	
Rodriguez, Jesus (Jesse)	0.25	
Sanchez, Arthur	-0.77	
Trevino, Robert	-0.09	
Veiga, Victor	0.08	
Viera, Ralph B.	-2.20	
MAXIMUM	-2.20	
MINIMUM	-0.01	
RANGE(MAX-MIN)	-2.198	
MEAN	0.000	
STANDARD DEVIATION	1.000	
N SIZE	26.000	



## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VRRCR - RC SLUDGE R

Rated Values

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

Rater	TOTALS	
Aguirre, Nancy P	9.31	
Barrera, Tony	9.32	
Bolaney, Jonathan	9.26	
Cales, Jonathon	9.09	
Campbell, Bryan	9.29	
Caproni, David	8.96	
Castillo, George	9.19	
Cumberworth, Lee	9.13	
DeCapite, Vanessa	9.24	
Dominguez, Lucio	9.32	
Foecking, Brian	9.27	
Greenland, Paul	9.17	
Hayden, Matthew	9.13	
Hurst, Kevin R.	9.28	
Kobrinetz, Joaquin J.	9.09	
Kunk, Daniel	9.22	
Langford, Mike	9.15	
Li, Jie	9.29	
Lonsway, Chris	9.43	
Lopez, Frank	9.24	
May, Marianne	9.12	
Rodriguez, Jesus (Jesse)	8.85	
Sanchez, Arthur	9.23	
Trevino, Robert	9.20	
Veiga, Victor	9.16	
Viera, Ralph B.	9.06	
MAXIMUM	9.43	
MINIMUM	8.85	
RANGE(MAX-MIN)	0.580	
MEAN	9.192	
STANDARD DEVIATION	0.122	
N SIZE	26.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VRRCR - RC SLUDGE R

VRRCR YI Values

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

Rater	TOTALS	
Aguirre, Nancy P	0.96	
Barrera, Tony	1.05	
Bolaney, Jonathan	0.55	
Cales, Jonathon	-0.84	
Campbell, Bryan	0.80	
Caproni, David	-1.90	
Castillo, George	-0.02	
Cumberworth, Lee	-0.51	
DeCapite, Vanessa	0.39	
Dominguez, Lucio	1.05	
Foecking, Brian	0.64	
Greenland, Paul	-0.18	
Hayden, Matthew	-0.51	
Hurst, Kevin R.	0.72	
Kobrinetz, Joaquin J.	-0.84	
Kunk, Daniel	0.23	
Langford, Mike	-0.35	
Li, Jie	0.80	
Lonsway, Chris	1.95	
Lopez, Frank	0.39	
May, Marianne	-0.59	
Rodriguez, Jesus (Jesse)	-2.80	
Sanchez, Arthur	0.31	
Trevino, Robert	0.06	
Veiga, Victor	-0.26	
Viera, Ralph B.	-1.08	
MAXIMUM	-2.80	
MINIMUM	-0.02	
RANGE(MAX-MIN)	-2.783	
MEAN	0.000	
STANDARD DEVIATION	1.000	
N SIZE	26.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VTCC - TC CVR SLUDGE

Rated Values

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

Rater	TOTALS	
Aguirre, Nancy P	8.96	
Barrera, Tony	9.10	
Bolaney, Jonathan	8.71	
Cales, Jonathon	9.21	
Campbell, Bryan	8.96	
Caproni, David	8.43	
Castillo, George	8.57	
Cumberworth, Lee	8.66	
DeCapite, Vanessa	8.91	
Dominguez, Lucio	9.02	
Foecking, Brian	9.01	
Greenland, Paul	8.60	
Hayden, Matthew	8.53	
Hurst, Kevin R.	8.85	
Kobrinetz, Joaquin J.	8.55	
Kunk, Daniel	8.57	
Langford, Mike	8.60	
Li, Jie	8.52	
Lonsway, Chris	8.77	
Lopez, Frank	9.06	
May, Marianne	8.73	
Rodriguez, Jesus (Jesse)	9.12	
Sanchez, Arthur	8.68	
Trevino, Robert	8.87	
Veiga, Victor	8.52	
Viera, Ralph B.	8.16	
MAXIMUM	9.21	
MINIMUM	8.16	
RANGE(MAX-MIN)	1.050	
MEAN	8.757	
STANDARD DEVIATION	0.254	
N SIZE	26.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VTCC - TC CVR SLUDGE

VTCC Yi Values

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

Rater	TOTALS	
Aguirre, Nancy P	0.80	
Barrera, Tony	1.35	
Bolaney, Jonathan	-0.18	
Cales, Jonathon	1.78	
Campbell, Bryan	0.80	
Caproni, David	-1.28	
Castillo, George	-0.73	
Cumberworth, Lee	-0.38	
DeCapite, Vanessa	0.60	
Dominguez, Lucio	1.04	
Foecking, Brian	1.00	
Greenland, Paul	-0.62	
Hayden, Matthew	-0.89	
Hurst, Kevin R.	0.37	
Kobrinetz, Joaquin J.	-0.81	
Kunk, Daniel	-0.73	
Langford, Mike	-0.62	
Li, Jie	-0.93	
Lonsway, Chris	0.05	
Lopez, Frank	1.19	
May, Marianne	-0.10	
Rodriguez, Jesus (Jesse)	1.43	
Sanchez, Arthur	-0.30	
Trevino, Robert	0.45	
Veiga, Victor	-0.93	
Viera, Ralph B.	-2.35	
MAXIMUM	-2.35	
MINIMUM	0.05	
RANGE(MAX-MIN)	-2.400	
MEAN	0.000	
STANDARD DEVIATION	1.000	
N SIZE	26.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VVDL - VALVE DECK SLUDGE L

Rated Values

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

Rater	TOTALS	
Aguirre, Nancy P	5.69	
Barrera, Tony	5.69	
Bolaney, Jonathan	5.63	
Cales, Jonathon	5.60	
Campbell, Bryan	5.65	
Caproni, David	5.67	
Castillo, George	5.58	
Cumberworth, Lee	5.62	
DeCapite, Vanessa	5.70	
Dominguez, Lucio	5.69	
Foecking, Brian	5.71	
Greenland, Paul	5.71	
Hayden, Matthew	5.54	
Hurst, Kevin R.	5.69	
Kobrinetz, Joaquin J.	5.65	
Kunk, Daniel	5.56	
Langford, Mike	5.72	
Li, Jie	5.58	
Lonsway, Chris	5.74	
Lopez, Frank	5.69	
May, Marianne	5.63	
Rodriguez, Jesus (Jesse)	5.69	
Sanchez, Arthur	5.66	
Trevino, Robert	5.62	
Veiga, Victor	5.67	
Viera, Ralph B.	5.52	
MAXIMUM	5.74	
MINIMUM	5.52	
RANGE(MAX-MIN)	0.220	
MEAN	5.650	
STANDARD DEVIATION	0.058	
N SIZE	26.000	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VVDL - VALVE DECK SLUDGE L

VVDL Yi Values

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

Rater	TOTALS	
Aguirre, Nancy P	0.69	
Barrera, Tony	0.69	
Bolaney, Jonathan	-0.34	
Cales, Jonathon	-0.86	
Campbell, Bryan	0.00	
Caproni, David	0.34	
Castillo, George	-1.20	
Cumberworth, Lee	-0.51	
DeCapite, Vanessa	0.86	
Dominguez, Lucio	0.69	
Foecking, Brian	1.03	
Greenland, Paul	1.03	
Hayden, Matthew	-1.88	
Hurst, Kevin R.	0.69	
Kobrinetz, Joaquin J.	0.00	
Kunk, Daniel	-1.54	
Langford, Mike	1.20	
Li, Jie	-1.20	
Lonsway, Chris	1.54	
Lopez, Frank	0.69	
May, Marianne	-0.34	
Rodriguez, Jesus (Jesse)	0.69	
Sanchez, Arthur	0.17	
Trevino, Robert	-0.51	
Veiga, Victor	0.34	
Viera, Ralph B.	-2.23	
MAXIMUM	-2.23	
MINIMUM	0.00	
RANGE(MAX-MIN)	-2.227	
MEAN	0.000	
STANDARD DEVIATION	1.000	
N SIZE	26.000	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VVDR - VALVE DECK SLUDGE R

Rated Values

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

Rater	TOTALS	
Aguirre, Nancy P	3.85	
Barrera, Tony	3.82	
Bolaney, Jonathan	3.86	
Cales, Jonathon	3.80	
Campbell, Bryan	3.82	
Caproni, David	3.83	
Castillo, George	3.82	
Cumberworth, Lee	3.84	
DeCapite, Vanessa	3.84	
Dominguez, Lucio	3.85	
Foecking, Brian	3.86	
Greenland, Paul	3.92	
Hayden, Matthew	3.83	
Hurst, Kevin R.	3.90	
Kobrinetz, Joaquin J.	3.83	
Kunk, Daniel	3.81	
Langford, Mike	3.91	
Li, Jie	3.75	
Lonsway, Chris	3.88	
Lopez, Frank	3.86	
May, Marianne	3.82	
Rodriguez, Jesus (Jesse)	3.76	
Sanchez, Arthur	3.87	
Trevino, Robert	3.81	
Veiga, Victor	3.81	
Viera, Ralph B.	3.78	
MAXIMUM	3.92	
MINIMUM	3.75	
RANGE(MAX-MIN)	0.170	
MEAN	3.836	
STANDARD DEVIATION	0.050	
N SIZE	26.000	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VVDR - VALVE DECK SLUDGE R

VVDR Yi Values

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

Rater	TOTALS	
Aguirre, Nancy P	0.28	
Barrera, Tony	-0.32	
Bolaney, Jonathan	0.48	
Cales, Jonathon	-0.72	
Campbell, Bryan	-0.32	
Caproni, David	-0.12	
Castillo, George	-0.32	
Cumberworth, Lee	0.08	
DeCapite, Vanessa	0.08	
Dominguez, Lucio	0.28	
Foecking, Brian	0.48	
Greenland, Paul	1.68	
Hayden, Matthew	-0.12	
Hurst, Kevin R.	1.28	
Kobrinetz, Joaquin J.	-0.12	
Kunk, Daniel	-0.52	
Langford, Mike	1.48	
Li, Jie	-1.72	
Lonsway, Chris	0.88	
Lopez, Frank	0.48	
May, Marianne	-0.32	
Rodriguez, Jesus (Jesse)	-1.52	
Sanchez, Arthur	0.68	
Trevino, Robert	-0.52	
Veiga, Victor	-0.52	
Viera, Ralph B.	-1.12	
MAXIMUM	-1.72	
MINIMUM	0.08	
RANGE(MAX-MIN)	-1.800	
MEAN	0.000	
STANDARD DEVIATION	0.826	
N SIZE	26.000	



## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= OILSCR - OIL SCREEN

Rated Values

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

Rater	P1	P2
Aguirre, Nancy P	20.00	1.00
Barrera, Tony	20.00	1.00
Bolaney, Jonathan	17.00	1.00
Cales, Jonathon	18.00	1.00
Campbell, Bryan	12.00	1.00
Caproni, David	13.00	0.00
Castillo, George	16.00	0.00
Cumberworth, Lee	17.00	1.00
DeCapite, Vanessa	10.00	1.00
Dominguez, Lucio	15.00	1.00
Foecking, Brian	17.00	1.00
Greenland, Paul	15.00	0.00
Hayden, Matthew	19.00	0.00
Hurst, Kevin R.	15.00	1.00
Kobrinetz, Joaquin J.	18.00	1.00
Kunk, Daniel	18.00	1.00
Langford, Mike	16.00	0.00
Li, Jie	18.00	1.00
Lonsway, Chris	15.00	0.00
Lopez, Frank	15.00	0.00
May, Marianne	22.00	1.00
Rodriguez, Jesus (Jesse)	15.00	0.00
Sanchez, Arthur	22.00	1.00
Trevino, Robert	20.00	0.00
Veiga, Victor	17.00	1.00
Viera, Ralph B.	25.00	1.00
MAXIMUM	25.00	1.00
MINIMUM	10.00	0.00
RANGE(MAX-MIN)	15.000	1.000
MEAN	17.115	0.654
STANDARD DEVIATION	3.254	0.485
N SIZE	26.000	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= OILSCR - OIL SCREEN

OILSCR Y1 Values

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

Rater	P1	P2
Aguirre, Nancy P	0.89	0.71
Barrera, Tony	0.89	0.71
Bolaney, Jonathan	-0.04	0.71
Cales, Jonathon	0.27	0.71
Campbell, Bryan	-1.57	0.71
Caproni, David	-1.26	-1.35
Castillo, George	-0.34	-1.35
Cumberworth, Lee	-0.04	0.71
DeCapite, Vanessa	-2.19	0.71
Dominguez, Lucio	-0.65	0.71
Foecking, Brian	-0.04	0.71
Greenland, Paul	-0.65	-1.35
Hayden, Matthew	0.58	-1.35
Hurst, Kevin R.	-0.65	0.71
Kobrinetz, Joaquin J.	0.27	0.71
Kunk, Daniel	0.27	0.71
Langford, Mike	-0.34	-1.35
Li, Jie	0.27	0.71
Lonsway, Chris	-0.65	-1.35
Lopez, Frank	-0.65	-1.35
May, Marianne	1.50	0.71
Rodriguez, Jesus (Jesse)	-0.65	-1.35
Sanchez, Arthur	1.50	0.71
Trevino, Robert	0.89	-1.35
Veiga, Victor	-0.04	0.71
Viera, Ralph B.	2.42	0.71
MAXIMUM	2.42	-1.35
MINIMUM	-0.04	0.71
RANGE(MAX-MIN)	2.459	-2.061
MEAN	0.000	0.000
STANDARD DEVIATION	1.000	1.000
N SIZE	26.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VOPBX - OIL PAN BFL SLUDGE - LED

Rated Values

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

Rater	TOTALS	
Barrera, Tony	7.12	
Cumberworth, Lee	7.19	
Foecking, Brian	7.20	
Kobrinetz, Joaquin J.	7.18	
May, Marianne	7.19	
MAXIMUM	7.20	
MINIMUM	7.12	
RANGE(MAX-MIN)	0.080	
MEAN	7.176	
STANDARD DEVIATION	0.050	
N SIZE	5.000	

Part ID= VOPBX - OIL PAN BFL SLUDGE - LED

VOPBX Yi Values

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

Rater	TOTALS	
Barrera, Tony	-1.12	
Cumberworth, Lee	0.28	
Foecking, Brian	0.48	
Kobrinetz, Joaquin J.	0.08	
May, Marianne	0.28	
MAXIMUM	-1.12	
MINIMUM	0.08	
RANGE(MAX-MIN)	-1.200	
MEAN	0.000	
STANDARD DEVIATION	0.642	
N SIZE	5.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VOPX - OIL PAN SLUDGE - LED

Rated Values

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

Rater	TOTALS	
Barrera, Tony	6.50	
Cumberworth, Lee	6.48	
Foecking, Brian	6.51	
Kobrinetz, Joaquin J.	6.48	
May, Marianne	6.44	
MAXIMUM	6.51	
MINIMUM	6.44	
RANGE(MAX-MIN)	0.070	
MEAN	6.482	
STANDARD DEVIATION	0.050	
N SIZE	5.000	

Part ID= VOPX - OIL PAN SLUDGE - LED

VOPX Y1 Values

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

Rater	TOTALS	
Barrera, Tony	0.36	
Cumberworth, Lee	-0.04	
Foecking, Brian	0.56	
Kobrinetz, Joaquin J.	-0.04	
May, Marianne	-0.84	
MAXIMUM	-0.84	
MINIMUM	-0.04	
RANGE(MAX-MIN)	-0.800	
MEAN	0.000	
STANDARD DEVIATION	0.537	
N SIZE	5.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VRCBLX - RC BFL SLUDGE L - LED

Rated Values

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

Rater	TOTALS	
Barrera, Tony	7.52	
Bolaney, Jonathan	8.19	
Cumberworth, Lee	8.22	
Foecking, Brian	8.12	
Kobrinetz, Joaquin J.	8.09	
May, Marianne	8.12	
MAXIMUM	8.22	
MINIMUM	7.52	
RANGE(MAX-MIN)	0.700	
MEAN	8.043	
STANDARD DEVIATION	0.261	
N SIZE	6.000	

Part ID= VRCBLX - RC BFL SLUDGE L - LED

VRCBLX Yi Values

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

Rater	TOTALS	
Barrera, Tony	-2.01	
Bolaney, Jonathan	0.56	
Cumberworth, Lee	0.68	
Foecking, Brian	0.29	
Kobrinetz, Joaquin J.	0.18	
May, Marianne	0.29	
MAXIMUM	-2.01	
MINIMUM	0.18	
RANGE(MAX-MIN)	-2.184	
MEAN	0.000	
STANDARD DEVIATION	1.000	
N SIZE	6.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VRCBRX - RC BFL SLUDGE R - LED

Rated Values

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

Rater	TOTALS	
Barrera, Tony	7.91	
Bolaney, Jonathan	8.22	
Cumberworth, Lee	8.22	
Foecking, Brian	8.19	
Kobrinetz, Joaquin J.	8.64	
May, Marianne	8.09	
MAXIMUM	8.64	
MINIMUM	7.91	
RANGE(MAX-MIN)	0.730	
MEAN	8.212	
STANDARD DEVIATION	0.241	
N SIZE	6.000	

Part ID= VRCBRX - RC BFL SLUDGE R - LED

VRCBRX YI Values

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

Rater	TOTALS	
Barrera, Tony	-1.25	
Bolaney, Jonathan	0.03	
Cumberworth, Lee	0.03	
Foecking, Brian	-0.09	
Kobrinetz, Joaquin J.	1.78	
May, Marianne	-0.51	
MAXIMUM	1.78	
MINIMUM	0.03	
RANGE(MAX-MIN)	1.744	
MEAN	0.000	
STANDARD DEVIATION	1.000	
N SIZE	6.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VRCBVLX - RC BFL VARN L - LED

Rated Values

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

Rater	AVERAG	
Barrera, Tony	9.70	
Bolaney, Jonathan	9.68	
Cumberworth, Lee	9.71	
Foecking, Brian	9.68	
Kobrinetz, Joaquin J.	9.75	
May, Marianne	9.80	
MAXIMUM	9.80	
MINIMUM	9.68	
RANGE(MAX-MIN)	0.120	
MEAN	9.728	
STANDARD DEVIATION	0.050	
N SIZE	6.000	

Part ID= VRCBVLX - RC BFL VARN L - LED

VRCBVLX Yi Values

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

Rater	AVERAG	
Barrera, Tony	-0.56	
Bolaney, Jonathan	-0.96	
Cumberworth, Lee	-0.36	
Foecking, Brian	-0.96	
Kobrinetz, Joaquin J.	0.44	
May, Marianne	1.44	
MAXIMUM	1.44	
MINIMUM	-0.36	
RANGE(MAX-MIN)	1.800	
MEAN	0.000	
STANDARD DEVIATION	0.953	
N SIZE	6.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VRCBVRX - RC BFL VARN R - LED

Rated Values

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

Rater	AVERAG	
Barrera, Tony	9.80	
Bolaney, Jonathan	9.70	
Cumberworth, Lee	9.80	
Foecking, Brian	9.78	
Kobrinetz, Joaquin J.	9.75	
May, Marianne	9.76	
MAXIMUM	9.80	
MINIMUM	9.75	
RANGE(MAX-MIN)	0.050	
MEAN	9.778	
STANDARD DEVIATION	0.050	
N SIZE	6.000	

Part ID= VRCBVRX - RC BFL VARN R - LED

VRCBVRX Yi Values

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

Rater	AVERAG	
Barrera, Tony	0.44	
Bolaney, Jonathan	-1.56	
Cumberworth, Lee	0.44	
Foecking, Brian	0.04	
Kobrinetz, Joaquin J.	-0.56	
May, Marianne	-0.36	
MAXIMUM	-0.56	
MINIMUM	0.04	
RANGE(MAX-MIN)	-0.600	
MEAN	0.000	
STANDARD DEVIATION	0.456	
N SIZE	6.000	



## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VRCLX - RC SLUDGE L - LED

Rated Values

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

Rater	TOTALS	
Barrera, Tony	9.34	
Bolaney, Jonathan	9.18	
Cumberworth, Lee	9.21	
Foecking, Brian	9.28	
Kobrinetz, Joaquin J.	9.16	
May, Marianne	9.34	
MAXIMUM	9.34	
MINIMUM	9.16	
RANGE(MAX-MIN)	0.180	
MEAN	9.252	
STANDARD DEVIATION	0.080	
N SIZE	6.000	

Part ID= VRCLX - RC SLUDGE L - LED

VRCLX Yi Values

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

Rater	TOTALS	
Barrera, Tony	1.11	
Bolaney, Jonathan	-0.90	
Cumberworth, Lee	-0.52	
Foecking, Brian	0.36	
Kobrinetz, Joaquin J.	-1.15	
May, Marianne	1.11	
MAXIMUM	-1.15	
MINIMUM	0.36	
RANGE(MAX-MIN)	-1.507	
MEAN	0.000	
STANDARD DEVIATION	1.000	
N SIZE	6.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VRRCRX - RC SLUDGE R - LED

Rated Values

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

Rater	TOTALS	
Barrera, Tony	9.30	
Bolaney, Jonathan	<b>8.22</b>	
Cumberworth, Lee	9.21	
Foecking, Brian	9.19	
Kobrinetz, Joaquin J.	9.14	
May, Marianne	9.21	
MAXIMUM	9.30	
MINIMUM	8.22	
RANGE(MAX-MIN)	1.080	
MEAN	9.045	
STANDARD DEVIATION	0.407	
N SIZE	6.000	

Part ID= VRRCRX - RC SLUDGE R - LED

VRRCRX YI Values

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

Rater	TOTALS	
Barrera, Tony	0.63	
Bolaney, Jonathan	<b>-2.02</b>	
Cumberworth, Lee	0.40	
Foecking, Brian	0.36	
Kobrinetz, Joaquin J.	0.23	
May, Marianne	0.40	
MAXIMUM	-2.02	
MINIMUM	0.23	
RANGE(MAX-MIN)	-2.258	
MEAN	0.000	
STANDARD DEVIATION	1.000	
N SIZE	6.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VTCCX - TC CVR SLUDGE - LED

Rated Values

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

Rater	TOTALS	
Barrera, Tony	9.13	
Cumberworth, Lee	8.73	
Foecking, Brian	8.70	
Kobrinetz, Joaquin J.	8.66	
May, Marianne	8.73	
MAXIMUM	9.13	
MINIMUM	8.66	
RANGE(MAX-MIN)	0.470	
MEAN	8.790	
STANDARD DEVIATION	0.192	
N SIZE	5.000	

Part ID= VTCCX - TC CVR SLUDGE - LED

VTCCX YI Values

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

Rater	TOTALS	
Barrera, Tony	1.77	
Cumberworth, Lee	-0.31	
Foecking, Brian	-0.47	
Kobrinetz, Joaquin J.	-0.68	
May, Marianne	-0.31	
MAXIMUM	1.77	
MINIMUM	-0.31	
RANGE(MAX-MIN)	2.081	
MEAN	0.000	
STANDARD DEVIATION	1.000	
N SIZE	5.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VVDLX - VALVE DECK SLUDGE L - LED

Rated Values

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

Rater	TOTALS	
Barrera, Tony	5.67	
Cumberworth, Lee	5.65	
Foecking, Brian	5.69	
Kobrinetz, Joaquin J.	5.66	
May, Marianne	5.67	
MAXIMUM	5.69	
MINIMUM	5.65	
RANGE(MAX-MIN)	0.040	
MEAN	5.668	
STANDARD DEVIATION	0.050	
N SIZE	5.000	

Part ID= VVDLX - VALVE DECK SLUDGE L - LED

VVDLX YI Values

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

Rater	TOTALS	
Barrera, Tony	0.04	
Cumberworth, Lee	-0.36	
Foecking, Brian	0.44	
Kobrinetz, Joaquin J.	-0.16	
May, Marianne	0.04	
MAXIMUM	0.44	
MINIMUM	0.04	
RANGE(MAX-MIN)	0.400	
MEAN	0.000	
STANDARD DEVIATION	0.297	
N SIZE	5.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= VVDRX - VALVE DECK SLUDGE R - LED

Rated Values

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

Rater	TOTALS	
Barrera, Tony	3.82	
Cumberworth, Lee	3.82	
Foecking, Brian	3.83	
Kobrinetz, Joaquin J.	3.85	
May, Marianne	3.85	
MAXIMUM	3.85	
MINIMUM	3.82	
RANGE(MAX-MIN)	0.030	
MEAN	3.834	
STANDARD DEVIATION	0.050	
N SIZE	5.000	

Part ID= VVDRX - VALVE DECK SLUDGE R - LED

VVDRX YI Values

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

Rater	TOTALS	
Barrera, Tony	-0.28	
Cumberworth, Lee	-0.28	
Foecking, Brian	-0.08	
Kobrinetz, Joaquin J.	0.32	
May, Marianne	0.32	
MAXIMUM	0.32	
MINIMUM	-0.08	
RANGE(MAX-MIN)	0.400	
MEAN	0.000	
STANDARD DEVIATION	0.303	
N SIZE	5.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Part ID= OILSCRX - OIL SCREEN - LED

Rated Values

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

Rater	P1	P2
Barrera, Tony	18.00	1.00
Bolaney, Jonathan	17.00	1.00
Cumberworth, Lee	17.00	1.00
Foecking, Brian	17.00	1.00
Kobrinetz, Joaquin J.	18.00	1.00
May, Marianne	16.00	1.00
MAXIMUM	18.00	1.00
MINIMUM	16.00	1.00
RANGE(MAX-MIN)	2.000	0.000
MEAN	17.167	1.000
STANDARD DEVIATION	0.753	0.050
N SIZE	6.000	

Part ID= OILSCRX - OIL SCREEN - LED

OILSCRX Yi Values

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

Rater	P1	P2
Barrera, Tony	1.11	0.00
Bolaney, Jonathan	-0.22	0.00
Cumberworth, Lee	-0.22	0.00
Foecking, Brian	-0.22	0.00
Kobrinetz, Joaquin J.	1.11	0.00
May, Marianne	-1.55	0.00
MAXIMUM	-1.55	0.00
MINIMUM	-0.22	0.00
RANGE(MAX-MIN)	-1.328	0.000
MEAN	0.000	0.000
STANDARD DEVIATION	1.000	0.050
N SIZE	6.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Aguirre, Nancy P

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON	1.67	1.06	-0.38	0.32	0.89	0.51	0.47		
A2-SEQUENCE IIIG PISTON	-0.03	0.38	-0.94	-0.33	-0.81	0.61	0.58		
A3-SEQUENCE IIIG PISTON	0.72	1.00	1.32	0.18	0.65	1.29	1.57		
A4-SEQUENCE IIIG PISTON	0.70	-0.08	-1.32	0.28	-0.56	0.28	0.87		
A5-GMOD PISTON	0.57	0.58	-0.32	-0.48	0.31	1.44	1.20		
A6-GMOD PISTON	1.42	1.83	-0.64	-0.59	0.52	0.51	-0.35		
B1-SEQUENCE IIIG PISTON	1.90	0.12	-0.59	0.05	0.72	1.40	0.29		
B2-SEQUENCE IIIG PISTON	0.90	0.14	-1.10	0.19	0.90	0.09	0.20		
B3-SEQUENCE IIIG PISTON	1.15	1.26	0.69	-0.37	0.39	0.50	0.68		
B4-SEQUENCE IIIG PISTON	0.12	-0.58	0.06	0.79	-0.09	-0.34	-0.32		
B5-GMOD PISTON	-0.17	1.45	-0.39	-0.24	0.47	1.66	1.49		
B6-GMOD PISTON	0.57	1.12	-0.83	-0.14	0.10	1.38	1.66		
C1-SEQUENCE IIIG PISTON	1.47	1.42	-0.02	0.84	0.67	0.79	-0.23		
C2-SEQUENCE IIIG PISTON	0.16	0.11	-1.31	-0.63	0.49	-0.27	-0.31		
C3-SEQUENCE IIIG PISTON	-0.47	0.63	-0.76	1.82	0.84	0.04	1.04		
C4-SEQUENCE IIIG PISTON	0.80	1.16	0.92	0.96	1.04	1.91	0.83		
C5-GMOD PISTON	-0.88	1.28	0.25	-0.63	-0.19	0.91	1.50		
C6-GMOD PISTON	-0.06	-1.65	-1.26	0.38	-1.38	0.74	1.89		
MAXIMUM	1.90	1.83	1.32	1.82	-1.38	1.91	1.89		
MINIMUM	-0.03	-0.08	-0.02	0.05	-0.09	0.04	0.20		
RANGE(MAX-MIN)	1.930	1.910	1.340	1.770	-1.290	1.870	1.690		
MEAN	0.586	0.624	-0.368	0.133	0.276	0.747	0.726		
STANDARD DEVIATION	0.763	0.854	0.777	0.657	0.656	0.659	0.739		

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Arrizon, Richard

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON	0.71	0.89	1.39	0.09	-0.55	0.17	0.07		
A2-SEQUENCE IIIG PISTON	0.37	-0.92	-0.24	-0.89	-1.18	0.61	0.90		
A3-SEQUENCE IIIG PISTON									
A4-SEQUENCE IIIG PISTON									
A5-GMOD PISTON	0.37	-0.95	0.60	-0.48	-0.65	2.11	1.70		
A6-GMOD PISTON	-0.20	0.47	0.84	0.87	-2.20	2.27	-0.35		
B1-SEQUENCE IIIG PISTON	-1.89	0.12	0.35	0.61	-0.02	0.94	-1.12		
B2-SEQUENCE IIIG PISTON									
B3-SEQUENCE IIIG PISTON	-0.11	0.59	-0.42	-0.92	0.11	1.36	0.25		
B4-SEQUENCE IIIG PISTON									
B5-GMOD PISTON									
B6-GMOD PISTON									
C1-SEQUENCE IIIG PISTON									
C2-SEQUENCE IIIG PISTON									
C3-SEQUENCE IIIG PISTON									
C4-SEQUENCE IIIG PISTON									
C5-GMOD PISTON									
C6-GMOD PISTON									
MAXIMUM	-1.89	-0.95	1.39	-0.92	-2.20	2.27	1.70		
MINIMUM	-0.11	0.12	-0.24	0.09	-0.02	0.17	0.07		
RANGE(MAX-MIN)	-1.780	-1.070	1.630	-1.010	-2.180	2.100	1.630		
MEAN	-0.125	0.033	0.420	-0.120	-0.748	1.243	0.242		
STANDARD DEVIATION	0.928	0.790	0.678	0.764	0.850	0.832	0.979		



## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Barrera, Tony

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON	-1.54	-0.85	1.07	-0.27	-0.28	0.34	0.47		
A2-SEQUENCE IIIG PISTON	-0.03	-0.73	-0.38	-1.29	-1.40	-1.92	-0.61		
A3-SEQUENCE IIIG PISTON	-0.40	-1.16	0.36	0.05	-0.35	0.63	-0.08		
A4-SEQUENCE IIIG PISTON	0.50	0.60	0.47	-0.97	-0.99	-0.55	-0.08		
A5-GMOD PISTON	-0.83	-0.05	-1.50	0.92	-0.77	0.77	1.27		
A6-GMOD PISTON	-0.79	0.47	-0.57	-0.59	-0.19	0.14	1.31		
B1-SEQUENCE IIIG PISTON	-0.95	0.12	-0.35	0.41	-0.78	-0.14	0.29		
B2-SEQUENCE IIIG PISTON	-1.15	-1.07	-0.52	-0.51	-1.01	-1.37	0.43		
B3-SEQUENCE IIIG PISTON	1.23	0.22	-0.53	1.08	0.25	0.12	-0.23		
B4-SEQUENCE IIIG PISTON	1.15	-0.35	-0.82	-0.65	-0.41	-0.16	-0.15		
B5-GMOD PISTON	-0.79	-1.99	-1.77	0.16	-0.35	-0.50	0.02		
B6-GMOD PISTON	-1.08	-0.99	-1.82	0.26	-1.52	-0.01	0.15		
C1-SEQUENCE IIIG PISTON	-1.52	0.24	-0.32	-0.42	0.20	-2.00	0.37		
C2-SEQUENCE IIIG PISTON	0.16	0.11	1.80	-0.10	-1.14	-0.45	-0.11		
C3-SEQUENCE IIIG PISTON	1.39	-0.02	0.61	-0.59	-0.44	0.24	-0.16		
C4-SEQUENCE IIIG PISTON	-0.52	0.18	0.50	0.24	-0.91	-0.33	-0.38		
C5-GMOD PISTON	-0.59	-1.32	-1.57	0.38	-0.41	-0.66	-0.30		
C6-GMOD PISTON	-0.06	-0.81	-0.46	-0.52	-1.28	0.80	0.72		
MAXIMUM	-1.54	-1.99	-1.82	-1.29	-1.52	-2.00	1.31		
MINIMUM	-0.03	-0.02	-0.32	0.05	-0.19	-0.01	0.02		
RANGE(MAX-MIN)	-1.510	-1.970	-1.500	-1.340	-1.330	-1.990	1.290		
MEAN	-0.323	-0.411	-0.322	-0.134	-0.654	-0.281	0.163		
STANDARD DEVIATION	0.906	0.724	0.993	0.626	0.516	0.816	0.529		

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Bolaney, Jonathan

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON									
A2-SEQUENCE IIIG PISTON									
A3-SEQUENCE IIIG PISTON									
A4-SEQUENCE IIIG PISTON									
A5-GMOD PISTON	-0.83	0.50	0.44	1.32	-0.13	-2.64	-1.30		
A6-GMOD PISTON									
B1-SEQUENCE IIIG PISTON	1.21	0.12	0.14	2.62	-1.12	0.58	-0.27		
B2-SEQUENCE IIIG PISTON	1.56	0.40	0.70	0.47	-1.25	-2.35	-0.98		
B3-SEQUENCE IIIG PISTON									
B4-SEQUENCE IIIG PISTON	-0.96	-0.73	0.85	-0.20	-0.04	-0.34	-0.32		
B5-GMOD PISTON	0.07	1.86	0.90	1.56	-0.35	-0.22	-0.17		
B6-GMOD PISTON	-0.37	0.31	0.60	-0.14	-1.70	-0.70	-0.17		
C1-SEQUENCE IIIG PISTON	-0.54	-1.13	-0.26	-0.02	-1.42	1.56	-0.03		
C2-SEQUENCE IIIG PISTON									
C3-SEQUENCE IIIG PISTON									
C4-SEQUENCE IIIG PISTON									
C5-GMOD PISTON									
C6-GMOD PISTON									
MAXIMUM	1.56	1.86	0.90	2.62	-1.70	-2.64	-1.30		
MINIMUM	0.07	0.12	0.14	-0.02	-0.04	-0.22	-0.03		
RANGE(MAX-MIN)	1.490	1.740	0.760	2.640	-1.660	-2.420	-1.270		
MEAN	0.020	0.190	0.481	0.801	-0.859	-0.587	-0.463		
STANDARD DEVIATION	0.995	0.961	0.417	1.067	0.671	1.500	0.480		

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Cales, Jonathon

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIIG PISTON									
A2-SEQUENCE IIIIG PISTON									
A3-SEQUENCE IIIIH PISTON	1.37	-0.75	0.50	-0.62	0.45	0.30	0.60		
A4-SEQUENCE IIIIH PISTON	0.10	-0.15	0.47	0.90	-1.62	-0.97	0.18		
A5-GMOD PISTON									
A6-GMOD PISTON									
B1-SEQUENCE IIIIG PISTON									
B2-SEQUENCE IIIIG PISTON									
B3-SEQUENCE IIIIH PISTON	0.56	2.20	0.01	-0.71	-0.81	0.03	0.13		
B4-SEQUENCE IIIIH PISTON	0.03	-0.56	0.52	0.28	0.98	-0.34	-0.32		
B5-GMOD PISTON									
B6-GMOD PISTON									
C1-SEQUENCE IIIIG PISTON									
C2-SEQUENCE IIIIG PISTON									
C3-SEQUENCE IIIIH PISTON	-0.26	-2.21	1.36	-0.86	-0.78	0.04	-0.16		
C4-SEQUENCE IIIIH PISTON	0.98	0.83	0.05	0.97	0.52	-0.33	0.68		
C5-GMOD PISTON									
C6-GMOD PISTON									
MAXIMUM	1.37	-2.21	1.36	0.97	-1.62	-0.97	0.68		
MINIMUM	0.03	-0.15	0.01	0.28	0.45	0.03	0.13		
RANGE(MAX-MIN)	1.340	-2.060	1.350	0.690	-2.070	-1.000	0.550		
MEAN	0.463	-0.107	0.485	-0.007	-0.210	-0.212	0.185		
STANDARD DEVIATION	0.623	1.500	0.486	0.832	1.006	0.445	0.399		

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Campbell, Bryan

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON	3.27	2.97	-0.70	1.16	1.43	0.68	0.47		
A2-SEQUENCE IIIG PISTON	2.97	0.27	-0.19	-0.35	0.08	0.85	1.21		
A3-SEQUENCE IIH PISTON	-1.59	6.08	3.27	-0.72	1.25	0.50	1.70		
A4-SEQUENCE IIH PISTON	2.30	3.01	-0.29	-0.56	2.19	-0.97	1.39		
A5-GMOD PISTON									
A6-GMOD PISTON									
B1-SEQUENCE IIIG PISTON	1.79	0.12	-0.39	3.22	1.00	2.30	-0.70		
B2-SEQUENCE IIIG PISTON	0.36	-0.88	0.86	-1.08	-1.88	2.04	1.26		
B3-SEQUENCE IIH PISTON									
B4-SEQUENCE IIH PISTON									
B5-GMOD PISTON									
B6-GMOD PISTON									
C1-SEQUENCE IIIG PISTON									
C2-SEQUENCE IIIG PISTON									
C3-SEQUENCE IIH PISTON									
C4-SEQUENCE IIH PISTON									
C5-GMOD PISTON									
C6-GMOD PISTON									
MAXIMUM	3.27	6.08	3.27	3.22	2.19	2.30	1.70		
MINIMUM	0.36	0.12	-0.19	-0.35	0.08	0.50	0.47		
RANGE(MAX-MIN)	2.910	5.960	3.460	3.570	2.110	1.800	1.230		
MEAN	1.517	1.928	0.427	0.278	0.678	0.900	0.888		
STANDARD DEVIATION	1.837	2.585	1.490	1.635	1.427	1.180	0.877		

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Caproni, David

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON									
A2-SEQUENCE IIIG PISTON									
A3-SEQUENCE IIIG PISTON	1.17	-1.22	-0.02	-1.26	0.45	0.23	-0.63		
A4-SEQUENCE IIIG PISTON	0.50	1.95	-1.39	1.39	0.42	0.41	0.61		
A5-GMOD PISTON									
A6-GMOD PISTON									
B1-SEQUENCE IIIG PISTON									
B2-SEQUENCE IIIG PISTON									
B3-SEQUENCE IIIG PISTON	2.91	1.26	0.44	1.21	1.39	0.50	0.56		
B4-SEQUENCE IIIG PISTON	0.56	-0.08	0.48	0.25	1.60	-0.34	-0.32		
B5-GMOD PISTON									
B6-GMOD PISTON									
C1-SEQUENCE IIIG PISTON									
C2-SEQUENCE IIIG PISTON									
C3-SEQUENCE IIIG PISTON	-0.13	1.10	-0.14	-2.60	-0.97	0.04	-0.16		
C4-SEQUENCE IIIG PISTON	0.87	1.05	0.37	-0.11	0.73	-0.33	0.68		
C5-GMOD PISTON									
C6-GMOD PISTON									
MAXIMUM	2.91	1.95	-1.39	-2.60	1.60	0.50	0.68		
MINIMUM	-0.13	-0.08	-0.02	-0.11	0.42	0.04	-0.16		
RANGE(MAX-MIN)	3.040	2.030	-1.370	-2.490	1.180	0.460	0.840		
MEAN	0.980	0.677	-0.043	-0.187	0.603	0.085	0.123		
STANDARD DEVIATION	1.040	1.136	0.707	1.524	0.912	0.362	0.562		

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Castillo, George

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON	1.36	0.23	1.39	-1.69	-0.06	0.00	0.27		
A2-SEQUENCE IIIG PISTON	-0.03	0.78	-0.16	-0.70	1.17	-0.01	-0.21		
A3-SEQUENCE IIIG PISTON	1.55	1.99	1.10	0.40	0.25	0.56	0.11		
A4-SEQUENCE IIIG PISTON	-0.90	0.73	2.13	0.83	0.99	1.52	-0.08		
A5-GMOD PISTON	0.97	0.37	1.79	-0.48	0.59	0.94	0.20		
A6-GMOD PISTON	1.57	1.41	2.25	-0.59	1.06	1.01	1.31		
B1-SEQUENCE IIIG PISTON									
B2-SEQUENCE IIIG PISTON									
B3-SEQUENCE IIIG PISTON									
B4-SEQUENCE IIIG PISTON									
B5-GMOD PISTON									
B6-GMOD PISTON									
C1-SEQUENCE IIIG PISTON	0.33	1.23	2.58	-0.15	1.12	0.03	0.57		
C2-SEQUENCE IIIG PISTON	-0.84	0.71	1.80	-0.72	-0.18	0.19	-0.31		
C3-SEQUENCE IIIG PISTON	0.33	1.22	1.61	0.21	0.86	-0.36	-0.76		
C4-SEQUENCE IIIG PISTON	0.35	2.80	1.63	0.24	1.45	0.73	1.06		
C5-GMOD PISTON	2.70	2.58	0.75	-1.30	0.88	0.37	0.30		
C6-GMOD PISTON	-0.46	0.26	0.92	0.20	0.90	0.64	0.36		
MAXIMUM	2.70	2.80	2.58	-1.69	1.45	1.52	1.31		
MINIMUM	-0.03	0.23	-0.16	-0.15	-0.06	0.00	-0.08		
RANGE(MAX-MIN)	2.730	2.570	2.740	-1.540	1.510	1.520	1.390		
MEAN	0.578	1.193	1.483	-0.313	0.753	0.468	0.235		
STANDARD DEVIATION	1.088	0.868	0.748	0.737	0.505	0.534	0.570		

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Cumberworth, Lee

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON	0.35	0.39	0.75	-1.14	-1.05	-0.85	-1.53		
A2-SEQUENCE IIIG PISTON	-0.03	-2.02	-0.83	-1.01	-0.10	0.05	-1.95		
A3-SEQUENCE IIIG PISTON	0.65	0.48	-1.01	-1.20	0.45	-1.36	-1.30		
A4-SEQUENCE IIIG PISTON	0.10	-1.74	-0.84	0.07	-1.06	0.28	-0.60		
A5-GMOD PISTON	0.17	-0.22	-0.58	1.32	-0.65	-0.03	-0.51		
A6-GMOD PISTON	0.24	-1.44	0.33	1.05	-0.41	0.26	-0.35		
B1-SEQUENCE IIIG PISTON	0.40	0.12	-1.61	-1.08	-0.91	1.03	-0.98		
B2-SEQUENCE IIIG PISTON	-0.79	-0.69	-1.31	-0.51	-1.64	0.52	0.91		
B3-SEQUENCE IIIG PISTON	0.59	-0.83	-0.49	-0.74	-1.45	-2.06	1.71		
B4-SEQUENCE IIIG PISTON	0.33	0.22	0.22	-1.69	-0.04	0.55	0.57		
B5-GMOD PISTON	0.89	0.14	-0.72	0.56	-0.53	0.81	-0.17		
B6-GMOD PISTON	-0.53	-0.39	0.31	0.46	0.23	-0.94	-0.09		
C1-SEQUENCE IIIG PISTON	-1.52	0.24	-1.41	-0.09	-0.66	-0.10	-0.03		
C2-SEQUENCE IIIG PISTON	-0.04	0.11	-1.44	0.42	-1.44	0.93	-0.11		
C3-SEQUENCE IIIG PISTON	0.46	0.86	-0.76	0.08	-0.95	0.04	-0.16		
C4-SEQUENCE IIIG PISTON	0.27	-1.25	-1.45	-0.66	0.01	0.50	-0.83		
C5-GMOD PISTON	0.09	0.28	-0.20	0.38	-0.44	0.25	-0.30		
C6-GMOD PISTON	0.34	-0.47	-0.69	0.20	-1.38	-0.18	-0.81		
MAXIMUM	-1.52	-2.02	-1.61	-1.69	-1.64	-2.06	-1.95		
MINIMUM	-0.03	0.11	-0.20	0.07	0.01	-0.03	-0.03		
RANGE(MAX-MIN)	-1.490	-2.130	-1.410	-1.760	-1.650	-2.030	-1.920		
MEAN	0.109	-0.345	-0.652	-0.199	-0.668	-0.017	-0.363		
STANDARD DEVIATION	0.567	0.824	0.697	0.842	0.617	0.817	0.866		

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= DeCapite, Vanessa

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON	0.02	0.73	0.43	-1.43	0.93	2.04	1.87		
A2-SEQUENCE IIIG PISTON	-0.03	-2.28	-1.33	-0.82	0.22	-0.13	-0.05		
A3-SEQUENCE IIIG PISTON									
A4-SEQUENCE IIIG PISTON	-1.10	-1.05	0.13	0.35	0.70	-1.52	2.26		
A5-GMOD PISTON	-0.83	-0.99	0.52	1.12	-0.57	-2.09	-2.08		
A6-GMOD PISTON	-0.32	-0.22	-0.89	2.15	0.03	0.01	0.57		
B1-SEQUENCE IIIG PISTON	-1.24	-0.08	-1.37	2.98	-0.17	1.03	1.57		
B2-SEQUENCE IIIG PISTON	-0.61	-0.69	-1.73	0.33	-0.56	0.58	1.50		
B3-SEQUENCE IIIG PISTON	-0.67	0.69	-0.49	-0.61	-0.46	-1.02	1.16		
B4-SEQUENCE IIIG PISTON	0.33	-1.27	-0.36	0.05	0.73	0.55	0.57		
B5-GMOD PISTON	0.21	0.80	-1.64	-0.24	-0.28	0.91	1.31		
B6-GMOD PISTON									
C1-SEQUENCE IIIG PISTON									
C2-SEQUENCE IIIG PISTON									
C3-SEQUENCE IIIG PISTON									
C4-SEQUENCE IIIG PISTON									
C5-GMOD PISTON									
C6-GMOD PISTON									
MAXIMUM	-1.24	-2.28	-1.73	2.98	0.93	-2.09	2.26		
MINIMUM	0.02	-0.08	0.13	0.05	0.03	0.01	-0.05		
RANGE(MAX-MIN)	-1.260	-2.200	-1.860	2.930	0.900	-2.100	2.310		
MEAN	-0.424	-0.436	-0.673	0.388	0.057	0.036	0.868		
STANDARD DEVIATION	0.549	1.010	0.845	1.359	0.564	1.265	1.239		



## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Dominguez, Lucio

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON	0.22	0.39	-0.86	-1.01	0.30	-2.55	-1.53		
A2-SEQUENCE IIIG PISTON	-0.03	0.54	0.00	-0.92	0.37	1.16	1.05		
A3-SEQUENCE IIIG PISTON	0.09	-0.17	-0.46	0.02	1.85	0.23	0.60		
A4-SEQUENCE IIIG PISTON	-0.30	-0.05	-0.84	0.07	-0.35	-0.55	-1.29		
A5-GMOD PISTON	0.97	-0.72	-0.07	1.12	-0.69	-0.58	-0.08		
A6-GMOD PISTON	0.68	-0.75	-0.96	0.87	-0.52	0.76	-0.35		
B1-SEQUENCE IIIG PISTON	0.99	0.12	-1.08	-0.03	-1.09	-0.60	-0.98		
B2-SEQUENCE IIIG PISTON	-0.25	-0.05	-0.62	0.61	-0.46	0.21	-1.34		
B3-SEQUENCE IIIG PISTON	0.45	0.12	-0.64	-0.04	0.32	0.31	0.62		
B4-SEQUENCE IIIG PISTON	0.73	-0.07	-1.83	-0.58	-2.01	-0.34	-0.50		
B5-GMOD PISTON	-0.70	-0.27	-0.85	0.36	-0.85	-0.79	-0.17		
B6-GMOD PISTON	0.42	1.12	-0.54	5.46	-1.47	1.10	0.15		
C1-SEQUENCE IIIG PISTON	-0.07	1.23	-0.99	-0.29	-0.55	0.54	-0.03		
C2-SEQUENCE IIIG PISTON	0.16	0.11	-0.57	0.42	-0.39	1.11	-0.11		
C3-SEQUENCE IIIG PISTON	0.76	-0.97	-1.26	-0.05	-1.33	-0.16	-0.56		
C4-SEQUENCE IIIG PISTON	0.07	-0.15	-0.30	-0.47	0.73	-1.16	-0.53		
C5-GMOD PISTON	1.83	0.38	0.22	-0.29	-1.65	1.10	-0.50		
C6-GMOD PISTON	0.34	-0.69	-0.57	0.55	-0.24	0.59	0.48		
MAXIMUM	1.83	1.23	-1.83	5.46	-2.01	-2.55	-1.53		
MINIMUM	-0.03	-0.05	0.00	0.02	-0.24	-0.16	-0.03		
RANGE(MAX-MIN)	1.860	1.280	-1.830	5.440	-1.770	-2.390	-1.500		
MEAN	0.353	0.007	-0.679	0.020	-0.446	0.021	-0.282		
STANDARD DEVIATION	0.585	0.595	0.483	0.591	0.936	0.971	0.715		

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Foecking, Brian

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON	0.89	-2.26	0.27	0.87	0.30	0.51	0.47		
A2-SEQUENCE IIIG PISTON	-0.03	0.63	1.00	-0.18	1.27	-0.81	-1.08		
A3-SEQUENCE IIIG PISTON	0.16	1.41	-1.80	-1.15	-0.75	-0.03	-1.05		
A4-SEQUENCE IIIG PISTON	0.10	1.54	1.65	-1.67	0.56	0.41	-1.46		
A5-GMOD PISTON	-0.83	0.94	1.03	-0.48	1.95	-0.62	-0.94		
A6-GMOD PISTON	1.22	0.00	1.74	-0.59	0.14	-0.99	-0.35		
B1-SEQUENCE IIIG PISTON	-0.55	-1.28	1.37	1.05	0.02	-1.05	0.44		
B2-SEQUENCE IIIG PISTON	1.00	-0.69	1.44	0.61	-0.14	0.40	-0.16		
B3-SEQUENCE IIIG PISTON	0.13	0.59	-1.03	-1.02	-1.03	0.31	-1.20		
B4-SEQUENCE IIIG PISTON	-0.18	-1.45	0.89	0.89	0.94	-0.34	-0.32		
B5-GMOD PISTON	-0.27	-0.02	1.61	-0.24	-0.19	-0.88	-0.35		
B6-GMOD PISTON	-0.37	1.01	1.02	-0.14	-0.44	-1.38	0.39		
C1-SEQUENCE IIIG PISTON	-0.05	-1.13	1.01	-0.42	-0.12	-0.48	-0.03		
C2-SEQUENCE IIIG PISTON	-0.24	-0.29	1.18	0.25	0.45	-1.74	-0.11		
C3-SEQUENCE IIIG PISTON	-0.98	-0.61	1.49	0.08	-1.24	0.04	-0.16		
C4-SEQUENCE IIIG PISTON	0.32	1.82	0.24	0.44	-1.32	0.85	-0.08		
C5-GMOD PISTON	-0.11	-1.22	1.54	-1.52	1.44	-1.87	-0.30		
C6-GMOD PISTON	-0.46	1.49	1.15	-1.77	1.11	-0.44	-0.81		
MAXIMUM	1.22	-2.26	-1.80	-1.77	1.95	-1.87	-1.46		
MINIMUM	-0.03	0.00	0.24	0.08	0.02	-0.03	-0.03		
RANGE(MAX-MIN)	1.250	-2.260	-2.040	-1.850	1.930	-1.840	-1.430		
MEAN	-0.014	0.027	0.878	-0.277	0.164	-0.451	-0.394		
STANDARD DEVIATION	0.590	1.214	0.942	0.887	0.937	0.790	0.577		

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Greenland, Paul

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON									
A2-SEQUENCE IIIG PISTON									
A3-SEQUENCE IIIG PISTON									
A4-SEQUENCE IIIG PISTON									
A5-GMOD PISTON									
A6-GMOD PISTON									
B1-SEQUENCE IIIG PISTON	0.86	-2.08	-0.02	-1.80	1.55	0.76	0.44		
B2-SEQUENCE IIIG PISTON	0.27	1.23	0.75	2.01	0.84	1.25	0.31		
B3-SEQUENCE IIIG PISTON									
B4-SEQUENCE IIIG PISTON									
B5-GMOD PISTON									
B6-GMOD PISTON									
C1-SEQUENCE IIIG PISTON	1.82	-0.93	1.01	0.11	0.05	1.30	0.97		
C2-SEQUENCE IIIG PISTON	-1.04	0.11	1.18	-0.28	2.46	1.11	1.89		
C3-SEQUENCE IIIG PISTON	-0.26	0.45	1.36	0.48	-0.19	0.04	0.84		
C4-SEQUENCE IIIG PISTON	0.48	0.72	-0.45	0.56	2.78	-0.33	0.23		
C5-GMOD PISTON									
C6-GMOD PISTON									
MAXIMUM	1.82	-2.08	1.36	2.01	2.78	1.30	1.89		
MINIMUM	-0.26	0.11	-0.02	0.11	0.05	0.04	0.23		
RANGE(MAX-MIN)	2.080	-2.190	1.380	1.900	2.730	1.260	1.660		
MEAN	0.355	-0.083	0.638	0.180	1.248	0.688	0.780		
STANDARD DEVIATION	0.975	1.216	0.719	1.243	1.231	0.683	0.618		

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Hayden, Matthew

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON	-1.23	0.89	-0.05	0.61	-0.91	-0.85	-1.53		
A2-SEQUENCE IIIG PISTON									
A3-SEQUENCE IIIG PISTON	1.01	0.65	1.08	0.16	2.65	0.43	0.35		
A4-SEQUENCE IIIG PISTON	0.10	-1.33	-0.01	3.20	1.76	0.28	0.09		
A5-GMOD PISTON	-0.83	-0.36	-0.24	1.32	-0.37	-0.54	-0.15		
A6-GMOD PISTON	1.03	-0.58	-0.12	1.05	-0.19	2.01	-0.35		
B1-SEQUENCE IIIG PISTON									
B2-SEQUENCE IIIG PISTON									
B3-SEQUENCE IIIG PISTON									
B4-SEQUENCE IIIG PISTON	-0.07	-0.44	0.94	-1.23	0.00	-0.34	-0.68		
B5-GMOD PISTON									
B6-GMOD PISTON									
C1-SEQUENCE IIIG PISTON									
C2-SEQUENCE IIIG PISTON									
C3-SEQUENCE IIIG PISTON	-0.43	-0.97	0.49	-1.66	0.27	0.04	-0.36		
C4-SEQUENCE IIIG PISTON	-0.06	-1.03	-1.64	-1.60	-0.19	0.26	-0.08		
C5-GMOD PISTON									
C6-GMOD PISTON									
MAXIMUM	-1.23	-1.33	-1.64	3.20	2.65	2.01	-1.53		
MINIMUM	-0.06	-0.36	-0.01	0.16	0.00	0.04	-0.08		
RANGE(MAX-MIN)	-1.170	-0.970	-1.630	3.040	2.650	1.970	-1.450		
MEAN	-0.060	-0.396	0.056	0.231	0.378	0.161	-0.339		
STANDARD DEVIATION	0.798	0.792	0.848	1.685	1.201	0.870	0.573		

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Hurst, Kevin R.

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON	-0.48	-0.10	-2.31	0.19	0.35	-0.85	-1.53		
A2-SEQUENCE IIIG PISTON	-0.03	-0.50	-2.16	0.76	-0.42	-0.75	-0.53		
A3-SEQUENCE IIIG PISTON	0.38	-1.22	-1.04	-1.04	0.45	-1.42	0.41		
A4-SEQUENCE IIIG PISTON	0.30	-1.08	-0.77	0.21	-0.42	-1.80	0.61		
A5-GMOD PISTON	-0.83	-2.15	-2.09	-0.48	-0.17	0.73	-0.08		
A6-GMOD PISTON	-1.77	-1.58	-1.41	-0.59	-1.33	-0.37	-2.21		
B1-SEQUENCE IIIG PISTON	0.69	0.12	-0.55	-0.27	-1.18	0.40	-2.39		
B2-SEQUENCE IIIG PISTON	-0.25	1.04	-0.15	1.73	-1.09	0.21	-1.46		
B3-SEQUENCE IIIG PISTON	-0.59	-0.73	-1.39	-0.45	0.11	-1.78	0.56		
B4-SEQUENCE IIIG PISTON	0.17	-1.15	-1.58	-0.27	-1.64	-2.14	-2.10		
B5-GMOD PISTON	-0.41	-0.51	-0.06	1.56	0.65	-1.26	-2.01		
B6-GMOD PISTON	-1.79	-1.64	-0.40	-0.14	0.55	0.59	-0.40		
C1-SEQUENCE IIIG PISTON	-0.58	0.05	-0.81	1.96	0.50	-0.73	-2.03		
C2-SEQUENCE IIIG PISTON	-0.24	0.11	-0.69	1.21	-0.56	-0.45	-2.11		
C3-SEQUENCE IIIG PISTON	-0.77	1.33	1.11	0.62	0.34	0.04	-0.16		
C4-SEQUENCE IIIG PISTON	1.42	-0.15	-1.36	-0.63	-0.19	-1.16	1.36		
C5-GMOD PISTON	-0.88	-0.02	0.06	0.49	-0.41	0.98	-0.30		
C6-GMOD PISTON	-0.46	-0.02	1.15	1.09	0.80	0.74	0.01		
MAXIMUM	-1.79	-2.15	-2.31	1.96	-1.64	-2.14	-2.39		
MINIMUM	-0.03	-0.02	-0.06	-0.14	0.11	0.04	0.01		
RANGE(MAX-MIN)	-1.760	-2.130	-2.250	2.100	-1.750	-2.180	-2.400		
MEAN	-0.340	-0.456	-0.803	0.331	-0.203	-0.501	-0.798		
STANDARD DEVIATION	0.785	0.908	0.997	0.896	0.738	0.975	1.186		

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= King, Jennifer

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON									
A2-SEQUENCE IIIG PISTON	-0.03	-0.28	-0.58	-0.28	0.00	0.36	0.74		
A3-SEQUENCE IIIH PISTON									
A4-SEQUENCE IIIH PISTON									
A5-GMOD PISTON									
A6-GMOD PISTON									
B1-SEQUENCE IIIG PISTON	-0.11	0.12	-1.12	0.21	-0.38	1.49	-0.98		
B2-SEQUENCE IIIG PISTON	0.59	-0.37	-0.41	0.89	-0.91	0.64	0.20		
B3-SEQUENCE IIIH PISTON	-1.18	0.22	0.51	0.25	-1.10	1.36	0.74		
B4-SEQUENCE IIIH PISTON									
B5-GMOD PISTON									
B6-GMOD PISTON									
C1-SEQUENCE IIIG PISTON	0.11	0.83	-0.32	0.24	-0.55	0.54	-1.23		
C2-SEQUENCE IIIG PISTON	0.16	0.11	-2.56	-0.10	-1.98	0.65	-0.11		
C3-SEQUENCE IIIH PISTON									
C4-SEQUENCE IIIH PISTON									
C5-GMOD PISTON									
C6-GMOD PISTON									
MAXIMUM	-1.18	0.83	-2.56	0.89	-1.98	1.49	-1.23		
MINIMUM	-0.03	0.11	-0.32	-0.10	0.00	0.36	-0.11		
RANGE(MAX-MIN)	-1.150	0.720	-2.240	0.990	-1.980	1.130	-1.120		
MEAN	-0.077	0.105	-0.747	0.202	-0.820	0.840	-0.107		
STANDARD DEVIATION	0.593	0.427	1.032	0.400	0.689	0.467	0.843		

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Kobrinetz, Joaquin J.

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON	0.84	0.31	0.75	-1.46	0.48	0.85	1.07		
A2-SEQUENCE IIIG PISTON	0.37	-1.12	-0.16	-0.75	-0.07	0.11	0.58		
A3-SEQUENCE IIIG PISTON	-0.09	1.70	-0.46	0.72	0.05	-1.62	-1.73		
A4-SEQUENCE IIIG PISTON	-0.10	-0.36	-0.15	-1.04	1.34	0.41	-1.38		
A5-GMOD PISTON	0.97	-0.15	0.01	-0.48	-0.09	0.26	0.06		
A6-GMOD PISTON	-0.10	-0.33	-1.15	-0.59	0.63	0.76	0.39		
B1-SEQUENCE IIIG PISTON	0.09	0.12	-0.22	-0.19	0.38	0.22	-0.27		
B2-SEQUENCE IIIG PISTON	-0.42	0.21	-0.04	-1.08	0.37	0.09	0.79		
B3-SEQUENCE IIIG PISTON	-0.30	0.50	0.22	0.59	0.18	0.31	-1.87		
B4-SEQUENCE IIIG PISTON	0.19	-0.16	0.73	0.12	0.78	0.55	0.57		
B5-GMOD PISTON	0.89	-0.02	-0.77	-0.44	-0.53	0.81	0.57		
B6-GMOD PISTON	1.36	-0.50	-0.69	0.26	0.19	-0.25	0.23		
C1-SEQUENCE IIIG PISTON	0.64	-0.54	-1.05	-1.34	0.30	1.94	0.97		
C2-SEQUENCE IIIG PISTON	-0.04	-0.69	-0.07	-0.72	-0.22	0.47	-0.11		
C3-SEQUENCE IIIG PISTON	1.10	0.21	-0.39	0.21	0.36	0.04	-0.36		
C4-SEQUENCE IIIG PISTON	0.28	-0.70	-0.52	0.58	1.65	-0.33	-2.05		
C5-GMOD PISTON	1.54	0.88	-1.60	-0.29	-0.26	0.13	0.30		
C6-GMOD PISTON	1.14	0.15	-1.38	-0.88	0.28	-0.23	0.25		
MAXIMUM	1.54	1.70	-1.60	-1.46	1.65	1.94	-2.05		
MINIMUM	-0.04	-0.02	0.01	0.12	0.05	0.04	0.06		
RANGE(MAX-MIN)	1.580	1.720	-1.610	-1.580	1.600	1.900	-2.110		
MEAN	0.464	-0.027	-0.386	-0.377	0.323	0.251	-0.111		
STANDARD DEVIATION	0.606	0.649	0.649	0.673	0.539	0.702	0.990		

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Kunk, Daniel

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON									
A2-SEQUENCE IIIG PISTON									
A3-SEQUENCE IIIG PISTON									
A4-SEQUENCE IIIG PISTON									
A5-GMOD PISTON									
A6-GMOD PISTON									
B1-SEQUENCE IIIG PISTON	-0.99	0.12	0.10	0.81	0.51	-0.78	0.01		
B2-SEQUENCE IIIG PISTON	-1.15	1.17	0.65	0.61	0.74	-1.56	-2.17		
B3-SEQUENCE IIIG PISTON									
B4-SEQUENCE IIIG PISTON	0.28	0.01	-0.24	-0.67	0.12	1.45	1.46		
B5-GMOD PISTON	-0.27	0.47	-0.60	0.16	-0.24	1.00	1.67		
B6-GMOD PISTON									
C1-SEQUENCE IIIG PISTON	-1.36	1.42	0.53	0.51	-0.49	0.67	1.97		
C2-SEQUENCE IIIG PISTON	0.16	0.71	-0.94	-0.10	1.96	1.39	1.89		
C3-SEQUENCE IIIG PISTON									
C4-SEQUENCE IIIG PISTON									
C5-GMOD PISTON	1.35	0.78	-1.49	-1.30	-1.22	0.85	0.30		
C6-GMOD PISTON	-0.06	0.76	1.15	1.27	-2.74	0.49	0.72		
MAXIMUM	-1.36	1.42	-1.49	-1.30	-2.74	-1.56	-2.17		
MINIMUM	-0.06	0.01	0.10	-0.10	0.12	0.49	0.01		
RANGE(MAX-MIN)	-1.300	1.410	-1.590	-1.200	-2.860	-2.050	-2.180		
MEAN	-0.255	0.680	-0.105	0.161	-0.170	0.439	0.731		
STANDARD DEVIATION	0.897	0.480	0.884	0.834	1.400	1.066	1.384		



## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Langford, Mike

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON									
A2-SEQUENCE IIIG PISTON									
A3-SEQUENCE IIIG PISTON									
A4-SEQUENCE IIIG PISTON									
A5-GMOD PISTON									
A6-GMOD PISTON									
B1-SEQUENCE IIIG PISTON	-0.15	-1.68	-1.41	1.01	1.68	-1.96	-2.11		
B2-SEQUENCE IIIG PISTON	-0.98	-0.30	-0.09	2.57	-0.32	0.34	0.31		
B3-SEQUENCE IIIG PISTON	0.02	1.45	-0.28	-1.41	0.04	-0.64	-1.99		
B4-SEQUENCE IIIG PISTON									
B5-GMOD PISTON									
B6-GMOD PISTON									
C1-SEQUENCE IIIG PISTON	0.92	-0.15	-0.75	1.16	-1.13	0.03	0.57		
C2-SEQUENCE IIIG PISTON	-0.84	0.11	-0.07	0.60	-1.35	-1.18	1.09		
C3-SEQUENCE IIIG PISTON	-0.26	0.15	-0.14	0.08	-1.72	0.04	-1.56		
C4-SEQUENCE IIIG PISTON	0.30	2.14	0.98	-1.14	1.14	-0.68	0.61		
C5-GMOD PISTON									
C6-GMOD PISTON									
MAXIMUM	-0.98	2.14	-1.41	2.57	-1.72	-1.96	-2.11		
MINIMUM	0.02	0.11	-0.07	0.08	0.04	0.03	0.31		
RANGE(MAX-MIN)	-1.000	2.030	-1.340	2.490	-1.760	-1.990	-2.420		
MEAN	-0.141	0.246	-0.251	0.410	-0.237	-0.579	-0.440		
STANDARD DEVIATION	0.652	1.240	0.728	1.381	1.284	0.804	1.383		

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Li, Jie

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON	-1.15	0.48	1.39	0.99	-1.00	0.85	0.47		
A2-SEQUENCE IIIG PISTON	-0.03	-0.44	-0.88	-0.47	0.29	-0.20	0.58		
A3-SEQUENCE IIIG PISTON	0.34	-0.69	-2.35	-1.55	0.25	1.36	0.84		
A4-SEQUENCE IIIG PISTON	0.30	1.54	0.40	-0.28	-0.99	1.80	0.70		
A5-GMOD PISTON	-0.63	-0.07	1.62	0.12	-0.49	-1.46	-0.30		
A6-GMOD PISTON	-1.33	-1.17	-0.38	-0.59	-2.20	-0.24	-0.35		
B1-SEQUENCE IIIG PISTON	-2.92	0.12	-0.22	-1.88	1.52	-1.87	-0.98		
B2-SEQUENCE IIIG PISTON	-1.67	0.14	-0.94	-0.23	0.76	1.07	0.43		
B3-SEQUENCE IIIG PISTON	0.21	-0.64	1.55	0.51	1.10	1.26	0.74		
B4-SEQUENCE IIIG PISTON	-0.96	0.71	0.31	-0.61	-2.18	1.45	1.46		
B5-GMOD PISTON	1.65	0.06	-0.72	0.56	-0.24	-0.98	0.02		
B6-GMOD PISTON	0.81	0.69	-1.11	0.86	2.03	-1.80	-0.80		
C1-SEQUENCE IIIG PISTON									
C2-SEQUENCE IIIG PISTON									
C3-SEQUENCE IIIG PISTON									
C4-SEQUENCE IIIG PISTON									
C5-GMOD PISTON									
C6-GMOD PISTON									
MAXIMUM	-2.92	1.54	-2.35	-1.88	-2.20	-1.87	1.46		
MINIMUM	-0.03	0.06	-0.22	0.12	-0.24	-0.20	0.02		
RANGE(MAX-MIN)	-2.890	1.480	-2.130	-2.000	-1.960	-1.670	1.440		
MEAN	-0.448	0.061	-0.111	-0.214	-0.096	0.103	0.234		
STANDARD DEVIATION	1.241	0.740	1.213	0.893	1.353	1.363	0.724		

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Lonsway, Chris

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON	-0.11	-0.27	-0.86	1.84	0.44	0.85	0.47		
A2-SEQUENCE IIIG PISTON	-0.03	-0.16	0.25	-0.18	-1.90	-0.50	0.26		
A3-SEQUENCE IIIH PISTON	0.70	-0.52	0.17	-0.22	-0.75	0.23	0.66		
A4-SEQUENCE IIIH PISTON	-1.30	0.23	-0.98	0.76	-1.76	0.41	-0.25		
A5-GMOD PISTON	0.37	-0.03	0.44	1.32	-1.62	-0.37	-0.94		
A6-GMOD PISTON	0.78	0.55	0.20	1.05	-1.60	-0.49	-0.35		
B1-SEQUENCE IIIG PISTON	-1.75	0.12	0.59	1.85	-0.17	-0.14	0.44		
B2-SEQUENCE IIIG PISTON	1.47	0.78	-0.15	1.45	-0.20	-1.37	-0.51		
B3-SEQUENCE IIIH PISTON	0.16	-0.16	0.04	-0.11	-0.88	0.41	-0.90		
B4-SEQUENCE IIIH PISTON	0.80	1.97	0.85	-1.11	0.49	-0.34	-0.32		
B5-GMOD PISTON	1.89	0.63	0.53	1.36	-1.58	-0.13	-1.09		
B6-GMOD PISTON	0.65	-0.07	-0.12	-0.14	-0.35	-0.85	-0.17		
C1-SEQUENCE IIIG PISTON	0.11	1.42	0.34	0.97	-1.28	0.41	-0.03		
C2-SEQUENCE IIIG PISTON	0.16	0.11	-0.07	-0.19	-0.18	0.10	-0.11		
C3-SEQUENCE IIIH PISTON	0.76	-0.85	0.11	-0.19	-0.19	0.04	-0.16		
C4-SEQUENCE IIIH PISTON	-2.14	-0.70	-0.47	-1.05	-0.40	-0.33	0.30		
C5-GMOD PISTON	0.47	1.18	-0.31	1.28	-0.33	-0.30	-0.30		
C6-GMOD PISTON	0.74	0.03	0.69	0.91	0.80	0.13	-0.81		
MAXIMUM	-2.14	1.97	-0.98	1.85	-1.90	-1.37	-1.09		
MINIMUM	-0.03	-0.03	0.04	-0.11	-0.17	0.04	-0.03		
RANGE(MAX-MIN)	-2.110	2.000	-1.020	1.960	-1.730	-1.410	-1.060		
MEAN	0.207	0.237	0.069	0.533	-0.637	-0.124	-0.212		
STANDARD DEVIATION	1.029	0.739	0.500	0.939	0.829	0.521	0.511		

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Lopez, Frank

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON	-1.51	-0.52	-0.05	0.28	0.53	0.85	0.47		
A2-SEQUENCE IIIG PISTON	-0.03	0.71	0.45	0.00	0.51	-0.69	0.11		
A3-SEQUENCE IIIG PISTON	-2.93	-0.81	1.16	-0.83	-1.35	-0.30	-0.38		
A4-SEQUENCE IIIG PISTON	0.70	-0.93	0.06	-0.83	1.20	-1.80	1.48		
A5-GMOD PISTON	-0.83	-0.83	0.35	-0.48	0.15	-1.59	-1.30		
A6-GMOD PISTON	-1.37	0.19	0.39	2.15	1.17	-2.12	-0.35		
B1-SEQUENCE IIIG PISTON	-0.59	0.12	-0.35	1.09	-0.82	-1.14	0.44		
B2-SEQUENCE IIIG PISTON	-1.27	-1.52	-0.99	-0.37	0.05	-1.86	-1.57		
B3-SEQUENCE IIIG PISTON	-2.38	-1.96	-0.14	-1.54	-0.96	0.12	0.13		
B4-SEQUENCE IIIG PISTON	-0.96	0.33	-0.15	-0.10	0.73	-0.34	-0.32		
B5-GMOD PISTON	-0.99	-0.43	0.61	-0.64	1.70	-1.16	-0.17		
B6-GMOD PISTON	-0.61	-0.29	1.31	-0.14	0.59	-1.05	-2.31		
C1-SEQUENCE IIIG PISTON	-0.91	-0.74	0.46	-0.68	-1.96	-0.60	-0.03		
C2-SEQUENCE IIIG PISTON	-0.44	0.11	-0.07	1.82	1.66	-1.55	-0.11		
C3-SEQUENCE IIIG PISTON	-1.44	1.10	0.99	-2.20	0.97	0.04	-0.16		
C4-SEQUENCE IIIG PISTON	-1.00	0.83	1.63	-1.31	-1.22	0.85	0.91		
C5-GMOD PISTON	-0.88	-1.32	0.67	1.50	0.45	-1.21	-0.30		
C6-GMOD PISTON	-1.06	1.60	1.15	1.09	0.80	-2.54	-1.51		
MAXIMUM	-2.93	-1.96	1.63	-2.20	-1.96	-2.54	-2.31		
MINIMUM	-0.03	0.11	-0.05	0.00	0.05	0.04	-0.03		
RANGE(MAX-MIN)	-2.900	-2.070	1.680	-2.200	-2.010	-2.580	-2.280		
MEAN	-1.028	-0.242	0.416	-0.066	0.233	-0.894	-0.276		
STANDARD DEVIATION	0.797	0.948	0.668	1.192	1.070	0.967	0.920		

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= May, Marianne

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON	-1.15	-0.10	1.23	1.16	1.29	0.00	0.67		
A2-SEQUENCE IIIG PISTON	-0.03	-0.21	1.20	2.15	1.14	0.11	0.34		
A3-SEQUENCE IIIG PISTON	0.59	-0.75	0.20	2.26	0.05	0.43	0.11		
A4-SEQUENCE IIIG PISTON	-0.50	1.73	0.47	1.32	0.92	1.24	0.53		
A5-GMOD PISTON	-0.83	-0.03	0.94	-0.48	1.67	-0.70	0.13		
A6-GMOD PISTON	-0.74	-0.06	-0.19	-0.59	1.88	0.39	1.13		
B1-SEQUENCE IIIG PISTON	-0.95	0.12	1.65	-0.15	0.63	1.22	1.00		
B2-SEQUENCE IIIG PISTON	-0.58	-0.88	0.86	0.05	1.67	0.82	1.26		
B3-SEQUENCE IIIG PISTON	0.21	-0.54	1.33	1.93	1.74	1.26	0.19		
B4-SEQUENCE IIIG PISTON	0.19	1.43	0.64	0.92	0.69	1.45	1.46		
B5-GMOD PISTON	-1.27	-0.60	0.86	-0.44	1.56	0.34	1.31		
B6-GMOD PISTON	-0.06	-0.72	0.31	-0.14	2.12	0.06	-0.64		
C1-SEQUENCE IIIG PISTON	0.39	-0.54	1.31	-0.68	1.78	-0.60	0.97		
C2-SEQUENCE IIIG PISTON	0.16	0.11	0.55	-0.63	1.66	1.11	1.89		
C3-SEQUENCE IIIG PISTON	-0.81	-1.68	-1.14	0.21	1.64	-0.36	0.84		
C4-SEQUENCE IIIG PISTON	0.50	-1.03	0.81	1.90	0.63	-0.80	0.45		
C5-GMOD PISTON	-0.59	-0.12	0.94	-1.30	1.80	0.67	0.50		
C6-GMOD PISTON	-0.46	0.37	0.23	-1.06	0.49	0.39	0.60		
MAXIMUM	-1.27	1.73	1.65	2.26	2.12	1.45	1.89		
MINIMUM	-0.03	-0.03	-0.19	0.05	0.05	0.00	0.11		
RANGE(MAX-MIN)	-1.240	1.760	1.840	2.210	2.070	1.450	1.780		
MEAN	-0.329	-0.194	0.678	0.357	1.298	0.391	0.708		
STANDARD DEVIATION	0.583	0.814	0.653	1.169	0.591	0.710	0.596		

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Pitta, Jimmy

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON	0.33	1.47	1.56	1.19	0.84	0.68	0.47		
A2-SEQUENCE IIIG PISTON	-0.03	0.16	-0.66	-0.49	0.14	2.21	2.16		
A3-SEQUENCE IIIG PISTON	0.68	1.00	0.01	1.01	-0.75	0.36	2.00		
A4-SEQUENCE IIIG PISTON	-0.10	-0.27	1.37	0.76	-0.42	0.14	1.48		
A5-GMOD PISTON									
A6-GMOD PISTON									
B1-SEQUENCE IIIG PISTON	-0.61	0.12	-1.73	-2.16	1.06	3.12	0.44		
B2-SEQUENCE IIIG PISTON	-0.87	-0.88	0.49	1.03	0.03	2.17	1.73		
B3-SEQUENCE IIIG PISTON	-1.29	1.35	0.04	0.56	0.11	0.12	1.77		
B4-SEQUENCE IIIG PISTON	0.66	1.67	1.02	-1.34	-0.29	1.45	1.46		
B5-GMOD PISTON									
B6-GMOD PISTON									
C1-SEQUENCE IIIG PISTON									
C2-SEQUENCE IIIG PISTON									
C3-SEQUENCE IIIG PISTON									
C4-SEQUENCE IIIG PISTON									
C5-GMOD PISTON									
C6-GMOD PISTON									
MAXIMUM	-1.29	1.67	-1.73	-2.16	1.06	3.12	2.16		
MINIMUM	-0.03	0.12	0.01	-0.49	0.03	0.12	0.44		
RANGE(MAX-MIN)	-1.260	1.550	-1.740	-1.670	1.030	3.000	1.720		
MEAN	-0.154	0.578	0.263	0.070	0.090	1.281	1.439		
STANDARD DEVIATION	0.719	0.925	1.100	1.256	0.612	1.129	0.651		

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Rodriguez, Jesus (Jesse)

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON	-0.94	0.97	-0.54	-1.59	2.24	0.85	0.47		
A2-SEQUENCE IIIG PISTON									
A3-SEQUENCE IIIG PISTON									
A4-SEQUENCE IIIG PISTON									
A5-GMOD PISTON									
A6-GMOD PISTON									
B1-SEQUENCE IIIG PISTON	-0.76	0.12	0.18	-1.04	-0.05	1.31	0.44		
B2-SEQUENCE IIIG PISTON	0.17	-0.37	0.17	-0.37	-1.01	1.01	0.79		
B3-SEQUENCE IIIG PISTON	-2.38	-0.16	-2.03	-0.63	-0.03	-1.40	0.56		
B4-SEQUENCE IIIG PISTON	-0.32	-1.49	0.94	0.61	-0.29	-0.34	-0.32		
B5-GMOD PISTON	0.45	1.04	-0.06	-2.04	0.81	1.10	-0.17		
B6-GMOD PISTON	0.81	-0.18	0.31	-0.14	0.55	-0.12	0.07		
C1-SEQUENCE IIIG PISTON									
C2-SEQUENCE IIIG PISTON									
C3-SEQUENCE IIIG PISTON									
C4-SEQUENCE IIIG PISTON									
C5-GMOD PISTON									
C6-GMOD PISTON									
MAXIMUM	-2.38	-1.49	-2.03	-2.04	2.24	-1.40	0.79		
MINIMUM	0.17	0.12	-0.06	-0.14	-0.03	-0.12	0.07		
RANGE(MAX-MIN)	-2.550	-1.610	-1.970	-1.900	2.270	-1.280	0.720		
MEAN	-0.424	-0.010	-0.147	-0.743	0.317	0.344	0.263		
STANDARD DEVIATION	1.069	0.861	0.940	0.898	1.031	0.994	0.409		

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Sanchez, Arthur (Rerate)

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON	0.40	0.15	-0.05	0.12	-2.35	-0.17	-0.33		
A2-SEQUENCE IIIG PISTON	-0.03	1.68	1.36	0.85	1.09	1.04	-0.53		
A3-SEQUENCE IIIG PISTON	0.43	-0.52	0.17	0.61	-0.35	0.63	-0.08		
A4-SEQUENCE IIIG PISTON	-0.50	0.04	1.65	1.74	0.85	0.41	0.70		
A5-GMOD PISTON	0.57	1.76	1.03	-1.28	0.23	-1.00	-0.73		
A6-GMOD PISTON	0.00	-0.22	1.42	-0.96	-0.68	1.76	1.50		
B1-SEQUENCE IIIG PISTON	0.37	0.12	1.16	-1.12	1.40	-1.78	0.72		
B2-SEQUENCE IIIG PISTON	1.65	1.80	1.65	-1.78	0.11	1.19	0.67		
B3-SEQUENCE IIIG PISTON	1.82	1.07	0.08	0.35	0.39	0.41	0.68		
B4-SEQUENCE IIIG PISTON									
B5-GMOD PISTON									
B6-GMOD PISTON									
C1-SEQUENCE IIIG PISTON	1.43	-1.72	1.74	1.16	0.26	0.79	-0.23		
C2-SEQUENCE IIIG PISTON									
C3-SEQUENCE IIIG PISTON									
C4-SEQUENCE IIIG PISTON									
C5-GMOD PISTON									
C6-GMOD PISTON									
MAXIMUM	1.82	1.80	1.74	-1.78	-2.35	-1.78	1.50		
MINIMUM	0.00	0.04	-0.05	0.12	0.11	-0.17	-0.08		
RANGE(MAX-MIN)	1.820	1.760	1.790	-1.900	-2.460	-1.610	1.580		
MEAN	0.614	0.416	1.021	-0.031	0.095	0.328	0.237		
STANDARD DEVIATION	0.772	1.149	0.696	1.182	1.063	1.058	0.714		



## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Sanchez, Arthur

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON	0.40	0.15	-0.05	0.12	-2.35	-0.17	-0.33		
A2-SEQUENCE IIIG PISTON	-0.03	1.68	1.36	0.85	1.09	1.04	-0.53		
A3-SEQUENCE IIIG PISTON	0.43	-0.52	0.17	0.61	-0.35	0.63	-0.08		
A4-SEQUENCE IIIG PISTON	-0.50	0.04	1.65	1.74	0.85	0.41	0.70		
A5-GMOD PISTON	0.57	1.76	1.03	-1.28	0.23	-1.00	-0.73		
A6-GMOD PISTON	0.00	-0.22	1.42	-0.96	-0.68	1.76	1.50		
B1-SEQUENCE IIIG PISTON	0.37	0.12	1.16	-1.12	1.40	-1.78	0.72		
B2-SEQUENCE IIIG PISTON	1.65	1.80	1.65	-1.78	0.11	1.19	0.67		
B3-SEQUENCE IIIG PISTON									
B4-SEQUENCE IIIG PISTON									
B5-GMOD PISTON									
B6-GMOD PISTON									
C1-SEQUENCE IIIG PISTON	1.43	-1.72	1.74	1.16	0.26	0.79	-0.23		
C2-SEQUENCE IIIG PISTON									
C3-SEQUENCE IIIG PISTON									
C4-SEQUENCE IIIG PISTON									
C5-GMOD PISTON									
C6-GMOD PISTON									
MAXIMUM	1.65	1.80	1.74	-1.78	-2.35	-1.78	1.50		
MINIMUM	0.00	0.04	-0.05	0.12	0.11	-0.17	-0.08		
RANGE(MAX-MIN)	1.650	1.760	1.790	-1.900	-2.460	-1.610	1.580		
MEAN	0.480	0.343	1.126	-0.073	0.062	0.319	0.188		
STANDARD DEVIATION	0.685	1.195	0.649	1.246	1.122	1.122	0.739		

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Swanson, Dennis

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT	
A1-SEQUENCE IIIG PISTON										
A2-SEQUENCE IIIG PISTON										
A3-SEQUENCE IIIG PISTON										
A4-SEQUENCE IIIG PISTON										
A5-GMOD PISTON										
A6-GMOD PISTON										
B1-SEQUENCE IIIG PISTON	-0.99	0.32	-1.77	-1.56	0.75	0.76	1.14			
B2-SEQUENCE IIIG PISTON	-1.10	-0.88	-2.05	0.47	-1.60	-0.03	-0.39			
B3-SEQUENCE IIIG PISTON	-0.46	-0.92	-1.53	-0.53	1.74	0.79	-1.08			
B4-SEQUENCE IIIG PISTON	0.75	-0.64	0.64	-0.88	-0.99	1.09	1.28			
B5-GMOD PISTON	0.55	-0.84	-1.27	-1.24	-1.37	-0.13	1.31			
B6-GMOD PISTON	0.81	-1.91	-1.68	1.06	-0.44	-0.65	-0.48			
C1-SEQUENCE IIIG PISTON	0.27	-0.74	-2.75	-0.88	0.26	2.58	1.77			
C2-SEQUENCE IIIG PISTON	0.16	1.11	-1.56	0.33	0.07	-1.46	1.49			
C3-SEQUENCE IIIG PISTON	-0.39	1.69	0.24	0.62	-0.32	1.64	1.44			
C4-SEQUENCE IIIG PISTON	-1.25	0.72	0.16	0.59	0.42	1.68	0.23			
C5-GMOD PISTON	-0.40	0.38	-1.64	-0.85	-0.83	-1.02	1.50			
C6-GMOD PISTON	0.74	-0.36	-1.26	1.27	-1.90	-0.28	-0.69			
MAXIMUM	-1.25	-1.91	-2.75	-1.56	-1.90	2.58	1.77			
MINIMUM	0.16	0.32	0.16	0.33	0.07	-0.03	0.23			
RANGE(MAX-MIN)	-1.410	-2.230	-2.910	-1.890	-1.970	2.610	1.540			
MEAN	-0.109	-0.173	-1.206	-0.133	-0.351	0.414	0.627			
STANDARD DEVIATION	0.757	1.025	1.019	0.959	1.061	1.213	1.031			

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Terrado, Ken

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON	-1.98	0.97	0.11	-0.11	-0.82	0.85	0.47		
A2-SEQUENCE IIIG PISTON									
A3-SEQUENCE IIIG PISTON	0.25	-1.57	-0.32	0.10	-0.95	1.22	0.96		
A4-SEQUENCE IIIG PISTON									
A5-GMOD PISTON									
A6-GMOD PISTON	-1.01	-0.86	0.01	-0.59	-1.17	-0.74	-0.35		
B1-SEQUENCE IIIG PISTON									
B2-SEQUENCE IIIG PISTON									
B3-SEQUENCE IIIG PISTON									
B4-SEQUENCE IIIG PISTON									
B5-GMOD PISTON									
B6-GMOD PISTON									
C1-SEQUENCE IIIG PISTON	-0.20	1.62	-1.11	1.56	0.69	1.43	-0.23		
C2-SEQUENCE IIIG PISTON	0.16	1.11	0.18	1.91	0.87	-0.82	-0.11		
C3-SEQUENCE IIIG PISTON	-0.55	-1.32	1.36	-0.46	-1.72	0.04	-0.16		
C4-SEQUENCE IIIG PISTON	-0.04	-0.26	-0.99	-2.67	-1.43	-2.69	1.67		
C5-GMOD PISTON									
C6-GMOD PISTON									
MAXIMUM	-1.98	1.62	1.36	-2.67	-1.72	-2.69	1.67		
MINIMUM	-0.04	-0.26	0.01	0.10	0.69	0.04	-0.11		
RANGE(MAX-MIN)	-1.940	1.880	1.350	-2.770	-2.410	-2.730	1.780		
MEAN	-0.481	-0.044	-0.109	-0.037	-0.647	-0.101	0.321		
STANDARD DEVIATION	0.791	1.278	0.829	1.516	1.021	1.452	0.755		

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Trevino, Robert

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON	0.40	1.80	0.43	-0.88	-0.91	0.51	0.87		
A2-SEQUENCE IIIG PISTON	-0.03	0.81	0.20	0.90	0.32	1.59	1.77		
A3-SEQUENCE IIIG PISTON	-0.31	0.54	1.38	0.61	0.05	1.29	1.27		
A4-SEQUENCE IIIG PISTON	0.30	0.10	0.61	0.07	0.28	1.24	0.87		
A5-GMOD PISTON	0.57	0.90	0.77	-0.48	-0.29	1.69	1.92		
A6-GMOD PISTON	0.41	1.33	0.84	-0.59	0.41	-0.62	0.02		
B1-SEQUENCE IIIG PISTON	0.36	0.12	-0.02	-1.60	1.80	0.58	1.00		
B2-SEQUENCE IIIG PISTON	-0.32	0.91	0.91	-0.37	1.45	1.07	0.79		
B3-SEQUENCE IIIG PISTON	-0.64	1.54	1.94	0.66	1.32	0.50	0.31		
B4-SEQUENCE IIIG PISTON	-2.52	-0.19	0.98	1.68	0.57	1.45	1.46		
B5-GMOD PISTON	0.93	1.62	0.94	-2.04	-0.33	1.10	0.57		
B6-GMOD PISTON	1.44	1.34	1.45	-0.14	0.01	1.36	1.02		
C1-SEQUENCE IIIG PISTON	0.62	0.05	-0.26	-1.01	0.86	0.03	0.37		
C2-SEQUENCE IIIG PISTON	0.16	0.11	0.68	-1.86	-0.35	0.74	1.29		
C3-SEQUENCE IIIG PISTON									
C4-SEQUENCE IIIG PISTON									
C5-GMOD PISTON									
C6-GMOD PISTON									
MAXIMUM	-2.52	1.80	1.94	-2.04	1.80	1.69	1.92		
MINIMUM	-0.03	0.05	-0.02	0.07	0.01	0.03	0.02		
RANGE(MAX-MIN)	-2.490	1.750	1.960	-2.110	1.790	1.660	1.900		
MEAN	0.098	0.784	0.775	-0.361	0.371	0.895	0.966		
STANDARD DEVIATION	0.922	0.671	0.586	1.086	0.771	0.648	0.547		

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Veiga, Victor

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON	0.02	-0.60	-0.38	-0.46	1.34	0.00	0.47		
A2-SEQUENCE IIIG PISTON									
A3-SEQUENCE IIIG PISTON									
A4-SEQUENCE IIIG PISTON	0.10	-1.40	0.96	-0.21	1.90	-2.35	1.48		
A5-GMOD PISTON	-0.83	-0.22	0.86	1.32	0.75	-0.83	-0.73		
A6-GMOD PISTON	-0.79	1.41	1.29	-0.59	1.01	0.51	-0.35		
B1-SEQUENCE IIIG PISTON									
B2-SEQUENCE IIIG PISTON									
B3-SEQUENCE IIIG PISTON	-0.40	0.12	0.11	0.12	0.39	0.50	0.25		
B4-SEQUENCE IIIG PISTON	-0.42	-0.43	1.48	-0.91	0.73	-0.34	-0.32		
B5-GMOD PISTON	-0.70	1.78	1.95	1.76	0.33	0.34	-0.17		
B6-GMOD PISTON									
C1-SEQUENCE IIIG PISTON	-0.60	0.83	1.86	-0.81	0.07	1.30	-0.03		
C2-SEQUENCE IIIG PISTON									
C3-SEQUENCE IIIG PISTON	-0.85	1.92	1.74	-1.39	-2.48	0.04	-0.16		
C4-SEQUENCE IIIG PISTON									
C5-GMOD PISTON									
C6-GMOD PISTON									
MAXIMUM	-0.85	1.92	1.95	1.76	-2.48	-2.35	1.48		
MINIMUM	0.02	0.12	0.11	0.12	0.07	0.00	-0.03		
RANGE(MAX-MIN)	-0.870	1.800	1.840	1.640	-2.550	-2.350	1.510		
MEAN	-0.497	0.379	1.097	-0.130	0.449	-0.092	0.049		
STANDARD DEVIATION	0.356	1.162	0.801	1.044	1.231	1.035	0.639		

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Viera, Ralph B.

YI Values

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

PartID	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	THTOT	ATTOT	FRTOT	RRTOT
A1-SEQUENCE IIIG PISTON									
A2-SEQUENCE IIIG PISTON									
A3-SEQUENCE IIIG PISTON									
A4-SEQUENCE IIIG PISTON									
A5-GMOD PISTON									
A6-GMOD PISTON									
B1-SEQUENCE IIIG PISTON	0.76	0.12	-0.27	0.05	0.78	0.04	1.71		
B2-SEQUENCE IIIG PISTON	0.67	1.04	0.22	2.29	2.28	1.19	2.20		
B3-SEQUENCE IIIG PISTON	-0.32	-0.26	1.58	2.74	-0.03	-0.07	1.65		
B4-SEQUENCE IIIG PISTON	-0.25	0.62	0.31	1.63	-0.74	1.45	1.46		
B5-GMOD PISTON	0.65	1.45	-0.35	2.56	1.38	1.00	1.67		
B6-GMOD PISTON	0.26	1.12	0.31	-0.14	2.88	0.94	1.10		
C1-SEQUENCE IIIG PISTON	0.25	-0.54	0.10	0.44	2.16	3.34	1.97		
C2-SEQUENCE IIIG PISTON	-1.04	0.11	1.80	0.86	1.79	1.11	1.89		
C3-SEQUENCE IIIG PISTON	-0.85	0.09	2.11	2.49	0.00	2.04	1.84		
C4-SEQUENCE IIIG PISTON	-1.94	1.38	-0.39	0.79	-0.30	-2.57	1.82		
C5-GMOD PISTON	-1.85	1.88	1.32	-0.07	1.98	1.10	1.70		
C6-GMOD PISTON	-0.06	1.15	0.34	-1.06	0.59	0.59	0.60		
MAXIMUM	-1.94	1.88	2.11	2.74	2.88	3.34	2.20		
MINIMUM	-0.06	0.09	0.10	0.05	0.00	0.04	0.60		
RANGE(MAX-MIN)	-1.880	1.790	2.010	2.690	2.880	3.300	1.600		
MEAN	-0.310	0.680	0.590	1.048	1.064	0.847	1.634		
STANDARD DEVIATION	0.933	0.765	0.877	1.268	1.175	1.399	0.423		

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI
H1-8-INTAKE VALVE SET	-0.70	1.80	-0.68	1.72	-0.40	0.19	-0.86	-0.96								
I1-8-INTAKE VALVE SET	0.97	-0.23	0.40	-0.74	0.20	0.66	1.35	-0.15								
PTOPS-PISTON TOPS									-1.16	-0.69	-0.53	-0.99	-1.09	-0.92	-1.27	-0.86
MAXIMUM	0.97	1.80	-0.68	1.72	-0.40	0.66	1.35	-0.96	-1.16	-0.69	-0.53	-0.99	-1.09	-0.92	-1.27	-0.86
MINIMUM	-0.70	-0.23	0.40	-0.74	0.20	0.19	-0.86	-0.15	-1.16	-0.69	-0.53	-0.99	-1.09	-0.92	-1.27	-0.86
RANGE(MAX-MIN)	1.670	2.030	-1.080	2.460	-0.600	0.470	2.210	-0.810	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN	-0.700	-0.230	-0.680	-0.740	-0.400	0.190	-0.860	-0.960	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Arrizon, Richard

YI Values

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

PartID	P1	P2	P3	P4	P5	P6	P7	P8	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI
H1-8-INTAKE VALVE SET																
I1-8-INTAKE VALVE SET																
PTOPS-PISTON TOPS																
MAXIMUM																
MINIMUM																
RANGE(MAX-MIN)																
MEAN																
STANDARD DEVIATION																



## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Barrera, Tony

YI Values

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

PartID	P1	P2	P3	P4	P5	P6	P7	P8	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI
H1-8-INTAKE VALVE SET	-1.18	0.85	-0.41	0.32	-0.40	0.55	-1.15	-0.71								
I1-8-INTAKE VALVE SET	0.74	0.88	0.40	0.20	0.85	1.38	1.35	0.87								
PTOPS-PISTON TOPS									-0.80	-1.65	-1.42	-1.53	-1.31	-1.55	-1.89	-1.57
MAXIMUM	-1.18	0.88	-0.41	0.32	0.85	1.38	1.35	0.87	-0.80	-1.65	-1.42	-1.53	-1.31	-1.55	-1.89	-1.57
MINIMUM	0.74	0.85	0.40	0.20	-0.40	0.55	-1.15	-0.71	-0.80	-1.65	-1.42	-1.53	-1.31	-1.55	-1.89	-1.57
RANGE(MAX-MIN)	-1.920	0.030	-0.810	0.120	1.250	0.830	2.500	1.580	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN	-1.180	0.850	-0.410	0.200	-0.400	0.550	-1.150	-0.710	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Bolaney, Jonathan

YI Values

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

PartID	P1	P2	P3	P4	P5	P6	P7	P8	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI	
H1-8-INTAKE VALVE SET	-0.94	-0.40	-0.41	-1.63	-1.51	0.19	-0.86	-0.71									
I1-8-INTAKE VALVE SET	-0.18	-0.59	0.17	-0.27	-0.45	0.30	-0.39	0.19									
PTOPS-PISTON TOPS									0.62	-0.04	0.41	-0.60	-0.14	0.17	0.14	0.61	
MAXIMUM	-0.94	-0.59	-0.41	-1.63	-1.51	0.30	-0.86	-0.71	0.62	-0.04	0.41	-0.60	-0.14	0.17	0.14	0.61	
MINIMUM	-0.18	-0.40	0.17	-0.27	-0.45	0.19	-0.39	0.19	0.62	-0.04	0.41	-0.60	-0.14	0.17	0.14	0.61	
RANGE(MAX-MIN)	-0.760	-0.190	-0.580	-1.360	-1.060	0.110	-0.470	-0.900	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
MEAN	-0.940	-0.590	-0.410	-1.630	-1.510	0.190	-0.860	-0.710	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
STANDARD DEVIATION	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Cales, Jonathon

YI Values

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

PartID	P1	P2	P3	P4	P5	P6	P7	P8	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI	
H1-8-INTAKE VALVE SET																	
I1-8-INTAKE VALVE SET																	
PTOPS-PISTON TOPS																	
MAXIMUM																	
MINIMUM																	
RANGE(MAX-MIN)																	
MEAN																	
STANDARD DEVIATION																	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Campbell, Bryan

YI Values

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

PartID	P1	P2	P3	P4	P5	P6	P7	P8	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI
H1-8-INTAKE VALVE SET	1.21	-0.09	1.73	2.27	1.07	-0.53	-0.58	1.26								
I1-8-INTAKE VALVE SET	0.74	0.51	-0.06	0.66	-0.13	0.30	0.66	0.19								
PTOPS-PISTON TOPS																
MAXIMUM	1.21	0.51	1.73	2.27	1.07	-0.53	0.66	1.26								
MINIMUM	0.74	-0.09	-0.06	0.66	-0.13	0.30	-0.58	0.19								
RANGE(MAX-MIN)	0.470	0.600	1.790	1.610	1.200	-0.830	1.240	1.070								
MEAN	0.740	-0.090	-0.060	0.660	-0.130	-0.530	-0.580	0.190								
STANDARD DEVIATION	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000								

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Caproni, David

YI Values

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

PartID	P1	P2	P3	P4	P5	P6	P7	P8	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI	
H1-8-INTAKE VALVE SET																	
I1-8-INTAKE VALVE SET																	
PTOPS-PISTON TOPS																	
MAXIMUM																	
MINIMUM																	
RANGE(MAX-MIN)																	
MEAN																	
STANDARD DEVIATION																	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Castillo, George

YI Values

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

PartID	P1	P2	P3	P4	P5	P6	P7	P8	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI	
H1-8-INTAKE VALVE SET																	
I1-8-INTAKE VALVE SET																	
PTOPS-PISTON TOPS																	
MAXIMUM																	
MINIMUM																	
RANGE(MAX-MIN)																	
MEAN																	
STANDARD DEVIATION																	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Cumberworth, Lee

YI Values

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

PartID	P1	P2	P3	P4	P5	P6	P7	P8	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI
H1-8-INTAKE VALVE SET	-1.78	0.92	0.39	1.52	0.96	1.27	0.29	-0.46								
I1-8-INTAKE VALVE SET	-2.12	1.80	-0.40	-0.58	1.34	0.30	1.11	0.87								
PTOPS-PISTON TOPS									1.42	1.19	1.04	1.03	1.17	0.72	0.96	1.45
MAXIMUM	-2.12	1.80	-0.40	1.52	1.34	1.27	1.11	0.87	1.42	1.19	1.04	1.03	1.17	0.72	0.96	1.45
MINIMUM	-1.78	0.92	0.39	-0.58	0.96	0.30	0.29	-0.46	1.42	1.19	1.04	1.03	1.17	0.72	0.96	1.45
RANGE(MAX-MIN)	-0.340	0.880	-0.790	2.100	0.380	0.970	0.820	1.330	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN	-2.120	0.920	-0.400	-0.580	0.960	0.300	0.290	-0.460	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= DeCapite, Vanessa

YI Values

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

PartID	P1	P2	P3	P4	P5	P6	P7	P8	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI
H1-8-INTAKE VALVE SET	2.17	0.23	2.00	-0.24	0.70	0.55	2.60	2.49								
I1-8-INTAKE VALVE SET	1.44	0.14	1.76	1.60	-1.76	-1.85	-2.13	0.53								
PTOPS-PISTON TOPS																
MAXIMUM	2.17	0.23	2.00	1.60	-1.76	-1.85	2.60	2.49								
MINIMUM	1.44	0.14	1.76	-0.24	0.70	0.55	-2.13	0.53								
RANGE(MAX-MIN)	0.730	0.090	0.240	1.840	-2.460	-2.400	4.730	1.960								
MEAN	1.440	0.140	1.760	-0.240	-1.760	-1.850	-2.130	0.530								
STANDARD DEVIATION	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000								



## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Dominguez, Lucio

YI Values

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

PartID	P1	P2	P3	P4	P5	P6	P7	P8	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI
H1-8-INTAKE VALVE SET	0.02	-0.40	0.66	-0.24	-1.14	0.91	1.16	1.01								
I1-8-INTAKE VALVE SET	1.20	0.51	0.40	0.43	1.18	-0.06	-0.39	0.53								
PTOPS-PISTON TOPS									0.57	1.40	1.81	1.18	1.02	1.27	1.34	1.23
MAXIMUM	1.20	0.51	0.66	0.43	1.18	0.91	1.16	1.01	0.57	1.40	1.81	1.18	1.02	1.27	1.34	1.23
MINIMUM	0.02	-0.40	0.40	-0.24	-1.14	-0.06	-0.39	0.53	0.57	1.40	1.81	1.18	1.02	1.27	1.34	1.23
RANGE(MAX-MIN)	1.180	0.910	0.260	0.670	2.320	0.970	1.550	0.480	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN	0.020	-0.400	0.400	-0.240	-1.140	-0.060	-0.390	0.530	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Foecking, Brian

YI Values

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

PartID	P1	P2	P3	P4	P5	P6	P7	P8	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI
H1-8-INTAKE VALVE SET	0.25	-0.72	-1.48	-0.80	-1.14	-0.17	0.29	-0.22								
I1-8-INTAKE VALVE SET	0.28	0.51	-0.51	-0.74	0.85	-0.42	-0.04	-0.49								
PTOPS-PISTON TOPS									1.64	1.67	1.09	1.52	1.46	1.01	1.57	1.20
MAXIMUM	0.28	-0.72	-1.48	-0.80	-1.14	-0.42	0.29	-0.49	1.64	1.67	1.09	1.52	1.46	1.01	1.57	1.20
MINIMUM	0.25	0.51	-0.51	-0.74	0.85	-0.17	-0.04	-0.22	1.64	1.67	1.09	1.52	1.46	1.01	1.57	1.20
RANGE(MAX-MIN)	0.030	-1.230	-0.970	-0.060	-1.990	-0.250	0.330	-0.270	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN	0.250	-0.720	-1.480	-0.800	-1.140	-0.420	-0.040	-0.490	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Greenland, Paul

YI Values

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

PartID	P1	P2	P3	P4	P5	P6	P7	P8	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI	
H1-8-INTAKE VALVE SET																	
I1-8-INTAKE VALVE SET																	
PTOPS-PISTON TOPS																	
MAXIMUM																	
MINIMUM																	
RANGE(MAX-MIN)																	
MEAN																	
STANDARD DEVIATION																	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Hayden, Matthew

YI Values

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

PartID	P1	P2	P3	P4	P5	P6	P7	P8	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI
H1-8-INTAKE VALVE SET	0.02	0.82	-0.44	0.35	0.00	0.12	0.00	0.23								
I1-8-INTAKE VALVE SET	-0.88	0.44	-0.31	-0.25	0.72	-0.27	0.52	-0.56								
PTOPS-PISTON TOPS									-0.27	0.03	-0.32	-0.72	-0.27	-0.97	-0.04	-0.33
MAXIMUM	-0.88	0.82	-0.44	0.35	0.72	-0.27	0.52	-0.56	-0.27	0.03	-0.32	-0.72	-0.27	-0.97	-0.04	-0.33
MINIMUM	0.02	0.44	-0.31	-0.25	0.00	0.12	0.00	0.23	-0.27	0.03	-0.32	-0.72	-0.27	-0.97	-0.04	-0.33
RANGE(MAX-MIN)	-0.900	0.380	-0.130	0.600	0.720	-0.390	0.520	-0.790	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN	-0.880	0.440	-0.440	-0.250	0.000	-0.270	0.000	-0.560	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI
H1-8-INTAKE VALVE SET	-1.18	-1.98	-0.68	-1.08	-0.40	-1.97	-1.15	-0.71								
I1-8-INTAKE VALVE SET	-1.34	-1.70	-2.11	-2.14	-2.08	-0.42	-1.43	-2.18								
PTOPS-PISTON TOPS									0.62	-0.08	-0.53	0.40	0.61	-0.19	0.14	-0.42
MAXIMUM	-1.34	-1.98	-2.11	-2.14	-2.08	-1.97	-1.43	-2.18	0.62	-0.08	-0.53	0.40	0.61	-0.19	0.14	-0.42
MINIMUM	-1.18	-1.70	-0.68	-1.08	-0.40	-0.42	-1.15	-0.71	0.62	-0.08	-0.53	0.40	0.61	-0.19	0.14	-0.42
RANGE(MAX-MIN)	-0.160	-0.280	-1.430	-1.060	-1.680	-1.550	-0.280	-1.470	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN	-1.340	-1.980	-2.110	-2.140	-2.080	-1.970	-1.430	-2.180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= King, Jennifer

YI Values

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

PartID	P1	P2	P3	P4	P5	P6	P7	P8	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI	
H1-8-INTAKE VALVE SET																	
I1-8-INTAKE VALVE SET																	
PTOPS-PISTON TOPS																	
MAXIMUM																	
MINIMUM																	
RANGE(MAX-MIN)																	
MEAN																	
STANDARD DEVIATION																	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI	
H1-8-INTAKE VALVE SET	-0.39	0.95	-0.60	0.54	-0.04	0.19	-0.60	0.27									
I1-8-INTAKE VALVE SET	-1.01	0.29	-0.40	0.27	0.62	-0.20	0.38	-0.62									
PTOPS-PISTON TOPS									-0.45	-0.21	0.02	-0.66	-0.14	0.04	0.05	0.08	
MAXIMUM	-1.01	0.95	-0.60	0.54	0.62	-0.20	-0.60	-0.62	-0.45	-0.21	0.02	-0.66	-0.14	0.04	0.05	0.08	
MINIMUM	-0.39	0.29	-0.40	0.27	-0.04	0.19	0.38	0.27	-0.45	-0.21	0.02	-0.66	-0.14	0.04	0.05	0.08	
RANGE(MAX-MIN)	-0.620	0.660	-0.200	0.270	0.660	-0.390	-0.980	-0.890	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
MEAN	-1.010	0.290	-0.600	0.270	-0.040	-0.200	-0.600	-0.620	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
STANDARD DEVIATION	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Kunk, Daniel

YI Values

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

PartID	P1	P2	P3	P4	P5	P6	P7	P8	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI
H1-8-INTAKE VALVE SET	0.73	0.23	0.93	-0.24	0.70	0.91	1.16	-0.71								
I1-8-INTAKE VALVE SET	0.51	-0.96	0.62	1.13	-0.13	0.66	0.31	1.21								
PTOPS-PISTON TOPS									0.04	0.16	0.92	0.31	0.33	0.12	0.37	0.33
MAXIMUM	0.73	-0.96	0.93	1.13	0.70	0.91	1.16	1.21	0.04	0.16	0.92	0.31	0.33	0.12	0.37	0.33
MINIMUM	0.51	0.23	0.62	-0.24	-0.13	0.66	0.31	-0.71	0.04	0.16	0.92	0.31	0.33	0.12	0.37	0.33
RANGE(MAX-MIN)	0.220	-1.190	0.310	1.370	0.830	0.250	0.850	1.920	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN	0.510	-0.960	0.620	-0.240	-0.130	0.660	0.310	-0.710	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050



# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Langford, Mike

YI Values

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

PartID	P1	P2	P3	P4	P5	P6	P7	P8	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI	
H1-8-INTAKE VALVE SET																	
I1-8-INTAKE VALVE SET																	
PTOPS-PISTON TOPS																	
MAXIMUM																	
MINIMUM																	
RANGE(MAX-MIN)																	
MEAN																	
STANDARD DEVIATION																	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Li, Jie

YI Values

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

PartID	P1	P2	P3	P4	P5	P6	P7	P8	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI	
H1-8-INTAKE VALVE SET																	
I1-8-INTAKE VALVE SET																	
PTOPS-PISTON TOPS																	
MAXIMUM																	
MINIMUM																	
RANGE(MAX-MIN)																	
MEAN																	
STANDARD DEVIATION																	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Lonsway, Chris

YI Values

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

PartID	P1	P2	P3	P4	P5	P6	P7	P8	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI
H1-8-INTAKE VALVE SET	1.69	0.23	1.46	-0.24	-0.04	0.19	1.16	0.52								
I1-8-INTAKE VALVE SET	1.44	0.51	1.76	2.06	0.85	1.38	-0.04	0.19								
PTOPS-PISTON TOPS									0.84	0.54	0.24	1.21	1.05	0.67	1.13	1.26
MAXIMUM	1.69	0.51	1.76	2.06	0.85	1.38	1.16	0.52	0.84	0.54	0.24	1.21	1.05	0.67	1.13	1.26
MINIMUM	1.44	0.23	1.46	-0.24	-0.04	0.19	-0.04	0.19	0.84	0.54	0.24	1.21	1.05	0.67	1.13	1.26
RANGE(MAX-MIN)	0.250	0.280	0.300	2.300	0.890	1.190	1.200	0.330	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN	1.440	0.230	1.460	-0.240	-0.040	0.190	-0.040	0.190	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Lopez, Frank

YI Values

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

PartID	P1	P2	P3	P4	P5	P6	P7	P8	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI
H1-8-INTAKE VALVE SET	-0.22	-1.35	-0.41	-1.08	-1.51	-1.25	-1.15	-2.19								
I1-8-INTAKE VALVE SET	-1.34	-2.43	-2.11	-0.74	-1.10	-1.85	-1.43	-1.17								
PTOPS-PISTON TOPS									0.62	0.37	0.24	1.06	0.55	0.20	0.05	0.14
MAXIMUM	-1.34	-2.43	-2.11	-1.08	-1.51	-1.85	-1.43	-2.19	0.62	0.37	0.24	1.06	0.55	0.20	0.05	0.14
MINIMUM	-0.22	-1.35	-0.41	-0.74	-1.10	-1.25	-1.15	-1.17	0.62	0.37	0.24	1.06	0.55	0.20	0.05	0.14
RANGE(MAX-MIN)	-1.120	-1.080	-1.700	-0.340	-0.410	-0.600	-0.280	-1.020	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN	-1.340	-2.430	-2.110	-1.080	-1.510	-1.850	-1.430	-2.190	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= May, Marianne

YI Values

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

PartID	P1	P2	P3	P4	P5	P6	P7	P8	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI
H1-8-INTAKE VALVE SET	-0.22	0.85	-0.41	0.04	0.33	0.91	-0.29	-0.22								
I1-8-INTAKE VALVE SET	0.05	0.51	0.40	-0.04	0.52	1.38	1.01	0.87								
PTOPS-PISTON TOPS																
MAXIMUM	-0.22	0.85	-0.41	0.04	0.52	1.38	1.01	0.87								
MINIMUM	0.05	0.51	0.40	0.04	0.33	0.91	-0.29	-0.22								
RANGE(MAX-MIN)	-0.270	0.340	-0.810	0.000	0.190	0.470	1.300	1.090								
MEAN	-0.220	0.510	-0.410	-0.040	0.330	0.910	-0.290	-0.220								
STANDARD DEVIATION	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000								

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Pitta, Jimmy

YI Values

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

PartID	P1	P2	P3	P4	P5	P6	P7	P8	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI
H1-8-INTAKE VALVE SET	0.49	-1.98	-1.48	-1.08	-0.40	-2.69	-0.29	0.27								
I1-8-INTAKE VALVE SET	-0.18	-1.33	-0.74	-1.44	-1.43	-1.85	-1.08	-2.18								
PTOPS-PISTON TOPS																
MAXIMUM	0.49	-1.98	-1.48	-1.44	-1.43	-2.69	-1.08	-2.18								
MINIMUM	-0.18	-1.33	-0.74	-1.08	-0.40	-1.85	-0.29	0.27								
RANGE(MAX-MIN)	0.670	-0.650	-0.740	-0.360	-1.030	-0.840	-0.790	-2.450								
MEAN	-0.180	-1.980	-1.480	-1.440	-1.430	-2.690	-1.080	-2.180								
STANDARD DEVIATION	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000								

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI
H1-8-INTAKE VALVE SET	0.49	0.23	-0.14	0.04	0.70	0.19	0.29	0.27								
I1-8-INTAKE VALVE SET	0.05	0.14	-0.29	-0.27	-0.45	-0.06	-0.73	1.21								
PTOPS-PISTON TOPS									-1.11	-0.35	-2.02	-0.90	-1.87	-1.52	-0.78	-1.32
MAXIMUM	0.49	0.23	-0.29	-0.27	0.70	0.19	-0.73	1.21	-1.11	-0.35	-2.02	-0.90	-1.87	-1.52	-0.78	-1.32
MINIMUM	0.05	0.14	-0.14	0.04	-0.45	-0.06	0.29	0.27	-1.11	-0.35	-2.02	-0.90	-1.87	-1.52	-0.78	-1.32
RANGE(MAX-MIN)	0.440	0.090	-0.150	-0.310	1.150	0.250	-1.020	0.940	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN	0.050	0.140	-0.290	-0.270	-0.450	-0.060	-0.730	0.270	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Sanchez, Arthur (Rerate)

YI Values

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

PartID	P1	P2	P3	P4	P5	P6	P7	P8	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI	
H1-8-INTAKE VALVE SET																	
I1-8-INTAKE VALVE SET																	
PTOPS-PISTON TOPS																	
MAXIMUM																	
MINIMUM																	
RANGE(MAX-MIN)																	
MEAN																	
STANDARD DEVIATION																	



## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Sanchez, Arthur

YI Values

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

PartID	P1	P2	P3	P4	P5	P6	P7	P8	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI
H1-8-INTAKE VALVE SET	0.02	-0.40	0.66	-0.24	2.55	0.19	0.58	0.77								
I1-8-INTAKE VALVE SET	-0.18	0.51	0.40	0.43	0.52	-0.06	0.66	0.53								
PTOPS-PISTON TOPS									-1.69	-1.96	-0.19	-0.84	-0.40	-0.82	-0.80	-1.07
MAXIMUM	-0.18	0.51	0.66	0.43	2.55	0.19	0.66	0.77	-1.69	-1.96	-0.19	-0.84	-0.40	-0.82	-0.80	-1.07
MINIMUM	0.02	-0.40	0.40	-0.24	0.52	-0.06	0.58	0.53	-1.69	-1.96	-0.19	-0.84	-0.40	-0.82	-0.80	-1.07
RANGE(MAX-MIN)	-0.200	0.910	0.260	0.670	2.030	0.250	0.080	0.240	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN	-0.180	-0.400	0.400	-0.240	0.520	-0.060	0.580	0.530	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Swanson, Dennis

YI Values

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

PartID	P1	P2	P3	P4	P5	P6	P7	P8	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI	
H1-8-INTAKE VALVE SET																	
I1-8-INTAKE VALVE SET																	
PTOPS-PISTON TOPS																	
MAXIMUM																	
MINIMUM																	
RANGE(MAX-MIN)																	
MEAN																	
STANDARD DEVIATION																	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Terrado, Ken

YI Values

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

PartID	P1	P2	P3	P4	P5	P6	P7	P8	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI	
H1-8-INTAKE VALVE SET																	
I1-8-INTAKE VALVE SET																	
PTOPS-PISTON TOPS																	
MAXIMUM																	
MINIMUM																	
RANGE(MAX-MIN)																	
MEAN																	
STANDARD DEVIATION																	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Trevino, Robert

YI Values

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

PartID	P1	P2	P3	P4	P5	P6	P7	P8	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI
H1-8-INTAKE VALVE SET	-0.46	0.23	-0.68	0.04	-0.04	0.19	-0.58	-0.22								
I1-8-INTAKE VALVE SET	-0.18	0.51	0.62	0.43	-0.13	0.66	0.31	0.19								
PTOPS-PISTON TOPS									-0.89	-0.38	-0.74	-0.50	-0.96	1.76	-0.95	-0.70
MAXIMUM	-0.46	0.51	-0.68	0.43	-0.13	0.66	-0.58	-0.22	-0.89	-0.38	-0.74	-0.50	-0.96	1.76	-0.95	-0.70
MINIMUM	-0.18	0.23	0.62	0.04	-0.04	0.19	0.31	0.19	-0.89	-0.38	-0.74	-0.50	-0.96	1.76	-0.95	-0.70
RANGE(MAX-MIN)	-0.280	0.280	-1.300	0.390	-0.090	0.470	-0.890	-0.410	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MEAN	-0.460	0.230	-0.680	0.040	-0.130	0.190	-0.580	-0.220	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Veiga, Victor

YI Values

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

PartID	P1	P2	P3	P4	P5	P6	P7	P8	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI	
H1-8-INTAKE VALVE SET																	
I1-8-INTAKE VALVE SET																	
PTOPS-PISTON TOPS																	
MAXIMUM																	
MINIMUM																	
RANGE(MAX-MIN)																	
MEAN																	
STANDARD DEVIATION																	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI
H1-8-INTAKE VALVE SET																
I1-8-INTAKE VALVE SET																
PTOPS-PISTON TOPS																
MAXIMUM																
MINIMUM																
RANGE(MAX-MIN)																
MEAN																
STANDARD DEVIATION																

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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	
P1-8-SEQ. VG PISTONS	-1.37	-0.65	-1.05	-0.58	-0.50	-1.60	-1.96	-0.44		
Q1-8-SEQ. VG PISTONS	0.87	1.16	1.15	0.95	1.49	1.50	0.62	1.00		
R1-8-SEQ. VH PISTONS	0.11	0.07	-0.65	-0.26	0.48	0.21	0.14	-0.79		
S1-8-SEQ. VH PISTONS	-0.70	1.02	1.29	1.30	-0.06	0.03	0.27	0.06		
VRCBVL-RC BFL VARN L										-0.14
VRCBVR-RC BFL VARN R										-0.62
MAXIMUM	-1.37	1.16	1.29	1.30	1.49	-1.60	-1.96	1.00		-0.62
MINIMUM	0.11	0.07	-0.65	-0.26	-0.06	0.03	0.14	0.06		-0.14
RANGE(MAX-MIN)	-1.480	1.090	1.940	1.560	1.550	-1.630	-2.100	0.940		-0.480
MEAN	-0.273	0.400	0.185	0.353	0.353	0.035	-0.233	-0.043		-0.620
STANDARD DEVIATION	0.973	0.851	1.208	0.913	0.858	1.271	1.169	0.778		0.000

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Arrizon, Richard

Yi Values

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

PartID	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI	AVERAG	
P1-8-SEQ. VG PISTONS										
Q1-8-SEQ. VG PISTONS										
R1-8-SEQ. VH PISTONS										
S1-8-SEQ. VH PISTONS										
VRCBVL-RC BFL VARN L										
VRCBVR-RC BFL VARN R										
MAXIMUM										
MINIMUM										
RANGE(MAX-MIN)										
MEAN										
STANDARD DEVIATION										



## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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	
P1-8-SEQ. VG PISTONS	0.87	1.17	1.07	0.24	0.64	0.60	0.60	0.45		
Q1-8-SEQ. VG PISTONS	-1.70	-1.69	-2.35	-1.13	-1.79	-1.38	-1.39	-2.10		
R1-8-SEQ. VH PISTONS	0.43	0.02	0.35	0.16	0.40	0.54	0.91	0.62		
S1-8-SEQ. VH PISTONS	1.50	0.35	-0.60	-0.49	0.49	0.78	-0.56	1.02		
VRCBVL-RC BFL VARN L										-0.14
VRCBVR-RC BFL VARN R										-0.62
MAXIMUM	-1.70	-1.69	-2.35	-1.13	-1.79	-1.38	-1.39	-2.10		-0.62
MINIMUM	0.43	0.02	0.35	0.16	0.40	0.54	-0.56	0.45		-0.14
RANGE(MAX-MIN)	-2.130	-1.710	-2.700	-1.290	-2.190	-1.920	-0.830	-2.550		-0.480
MEAN	0.275	-0.038	-0.383	-0.305	-0.065	0.135	-0.110	-0.003		-0.620
STANDARD DEVIATION	1.388	1.203	1.479	0.640	1.154	1.015	1.062	1.419		0.000

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Bolaney, Jonathan

YI Values

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

PartID	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI	AVERAG	
P1-8-SEQ. VG PISTONS	-0.76	0.17	-0.34	0.32	0.56	0.80	1.40	0.81		
Q1-8-SEQ. VG PISTONS	0.38	0.89	-0.43	0.53	0.83	0.58	0.62	-0.58		
R1-8-SEQ. VH PISTONS										
S1-8-SEQ. VH PISTONS	-1.50	-0.26	-0.39	-0.82	0.58	0.44	-0.52	0.49		
VRCBVL-RC BFL VARN L									-1.28	
VRCBVR-RC BFL VARN R									0.58	
MAXIMUM	-1.50	0.89	-0.43	-0.82	0.83	0.80	1.40	0.81	-1.28	
MINIMUM	0.38	0.17	-0.34	0.32	0.56	0.44	-0.52	0.49	0.58	
RANGE(MAX-MIN)	-1.880	0.720	-0.090	-1.140	0.270	0.360	1.920	0.320	-1.860	
MEAN	-0.627	0.267	-0.387	0.010	0.657	0.607	0.500	0.240	-1.280	
STANDARD DEVIATION	0.947	0.581	0.050	0.726	0.150	0.181	0.966	0.728	0.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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	
P1-8-SEQ. VG PISTONS	0.15	0.53	-0.23	-0.36	0.29	0.40	0.44	0.99		
Q1-8-SEQ. VG PISTONS										
R1-8-SEQ. VH PISTONS	-0.59	-0.85	-0.60	0.37	0.33	0.27	-0.22	-1.31		
S1-8-SEQ. VH PISTONS	0.70	-0.44	0.01	0.49	0.03	0.31	-3.14	-0.15		
VRCBVL-RC BFL VARN L									1.18	
VRCBVR-RC BFL VARN R									0.78	
MAXIMUM	0.70	-0.85	-0.60	0.49	0.33	0.40	-3.14	-1.31	1.18	
MINIMUM	0.15	-0.44	0.01	-0.36	0.03	0.27	-0.22	-0.15	0.78	
RANGE(MAX-MIN)	0.550	-0.410	-0.610	0.850	0.300	0.130	-2.920	-1.160	0.400	
MEAN	0.087	-0.253	-0.273	0.167	0.217	0.327	-0.973	-0.157	0.780	
STANDARD DEVIATION	0.647	0.709	0.307	0.460	0.163	0.067	1.905	1.150	0.000	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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	
P1-8-SEQ. VG PISTONS	0.21	-2.75	-3.29	-1.71	-1.55	-1.60	-2.12	-0.44		
Q1-8-SEQ. VG PISTONS	-1.89	-2.71	-1.85	0.72	-0.73	1.16	1.51	0.79		
R1-8-SEQ. VH PISTONS										
S1-8-SEQ. VH PISTONS										
VRCBVL-RC BFL VARN L									1.18	
VRCBVR-RC BFL VARN R									0.18	
MAXIMUM	-1.89	-2.75	-3.29	-1.71	-1.55	-1.60	-2.12	0.79	1.18	
MINIMUM	0.21	-2.71	-1.85	0.72	-0.73	1.16	1.51	-0.44	0.18	
RANGE(MAX-MIN)	-2.100	-0.040	-1.440	-2.430	-0.820	-2.760	-3.630	1.230	1.000	
MEAN	-1.890	-2.750	-3.290	-1.710	-1.550	-1.600	-2.120	-0.440	0.180	
STANDARD DEVIATION	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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	
P1-8-SEQ. VG PISTONS	1.54	-0.47	-1.05	-0.21	-0.15	-0.40	-1.32	0.01		
Q1-8-SEQ. VG PISTONS										
R1-8-SEQ. VH PISTONS	0.18	-1.48	-0.46	0.11	-1.15	0.10	0.19	1.24		
S1-8-SEQ. VH PISTONS	-0.30	1.38	0.68	0.97	0.58	0.31	0.51	-0.36		
VRCBVL-RC BFL VARN L										0.80
VRCBVR-RC BFL VARN R										1.38
MAXIMUM	1.54	-1.48	-1.05	0.97	-1.15	-0.40	-1.32	1.24	1.38	
MINIMUM	0.18	-0.47	-0.46	0.11	-0.15	0.10	0.19	0.01	0.80	
RANGE(MAX-MIN)	1.360	-1.010	-0.590	0.860	-1.000	-0.500	-1.510	1.230	0.580	
MEAN	0.473	-0.190	-0.277	0.290	-0.240	0.003	-0.207	0.297	0.800	
STANDARD DEVIATION	0.954	1.450	0.879	0.610	0.869	0.365	0.977	0.838	0.000	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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	
P1-8-SEQ. VG PISTONS	-0.64	0.17	0.36	-0.21	-1.46	-0.20	-0.20	-0.17		
Q1-8-SEQ. VG PISTONS										
R1-8-SEQ. VH PISTONS	0.18	-0.42	0.35	0.26	0.37	0.21	1.14	-0.74		
S1-8-SEQ. VH PISTONS	1.10	1.08	-0.46	0.05	0.77	0.58	-0.25	0.92		
VRCBVL-RC BFL VARN L									2.50	
VRCBVR-RC BFL VARN R									2.78	
MAXIMUM	1.10	1.08	-0.46	0.26	-1.46	0.58	1.14	0.92	2.78	
MINIMUM	0.18	0.17	0.35	0.05	0.37	-0.20	-0.20	-0.17	2.50	
RANGE(MAX-MIN)	0.920	0.910	-0.810	0.210	-1.830	0.780	1.340	1.090	0.280	
MEAN	0.213	0.277	0.083	0.033	-0.107	0.197	0.230	0.003	2.500	
STANDARD DEVIATION	0.870	0.756	0.471	0.235	1.189	0.390	0.788	0.843	0.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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	
P1-8-SEQ. VG PISTONS	-0.04	-0.84	0.13	-0.06	-0.59	-0.40	0.28	-0.62		
Q1-8-SEQ. VG PISTONS	-0.54	-0.81	-1.10	1.24	-0.45	-0.63	0.22	-0.65		
R1-8-SEQ. VH PISTONS	0.63	0.50	0.49	1.06	0.95	0.64	-1.76	1.45		
S1-8-SEQ. VH PISTONS	0.90	-0.02	-1.27	0.09	0.40	0.58	1.30	0.49		
VRCBVL-RC BFL VARN L									0.05	
VRCBVR-RC BFL VARN R									1.38	
MAXIMUM	0.90	-0.84	-1.27	1.24	0.95	0.64	-1.76	1.45	1.38	
MINIMUM	-0.04	-0.02	0.13	-0.06	0.40	-0.40	0.22	0.49	0.05	
RANGE(MAX-MIN)	0.940	-0.820	-1.400	1.300	0.550	1.040	-1.980	0.960	1.330	
MEAN	0.238	-0.293	-0.438	0.583	0.078	0.048	0.010	0.168	0.050	
STANDARD DEVIATION	0.652	0.651	0.878	0.662	0.728	0.657	1.280	1.006	0.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= DeCapite, Vanessa

YI Values

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

PartID	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI	AVERAG	
P1-8-SEQ. VG PISTONS	-0.10	0.17	-0.58	0.09	-0.15	0.20	0.28	1.52		
Q1-8-SEQ. VG PISTONS	-0.42	0.21	-0.68	-0.13	-2.40	-0.74	-0.53	2.03		
R1-8-SEQ. VH PISTONS										
S1-8-SEQ. VH PISTONS	1.30	0.22	-0.77	-0.57	0.95	0.64	-0.80	1.02		
VRCBVL-RC BFL VARN L									0.80	
VRCBVR-RC BFL VARN R									-0.02	
MAXIMUM	1.30	0.22	-0.77	-0.57	-2.40	-0.74	-0.80	2.03	0.80	
MINIMUM	-0.10	0.17	-0.58	0.09	-0.15	0.20	0.28	1.02	-0.02	
RANGE(MAX-MIN)	1.400	0.050	-0.190	-0.660	-2.250	-0.940	-1.080	1.010	0.820	
MEAN	0.260	0.200	-0.677	-0.203	-0.533	0.033	-0.350	1.523	-0.020	
STANDARD DEVIATION	0.915	0.050	0.095	0.336	1.708	0.705	0.562	0.505	0.000	



## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Dominguez, Lucio

YI Values

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

PartID	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI	AVERAG	
P1-8-SEQ. VG PISTONS	1.60	1.17	0.13	1.00	0.73	0.00	-0.68	1.34		
Q1-8-SEQ. VG PISTONS	1.66	0.89	0.65	1.06	0.44	1.39	0.87	-0.86		
R1-8-SEQ. VH PISTONS	0.43	0.55	0.40	-0.64	0.66	0.43	0.51	0.04		
S1-8-SEQ. VH PISTONS	-0.70	1.93	1.76	1.92	0.21	0.03	1.71	0.17		
VRCBVL-RC BFL VARN L										-0.14
VRCBVR-RC BFL VARN R										-0.62
MAXIMUM	1.66	1.93	1.76	1.92	0.73	1.39	1.71	1.34		-0.62
MINIMUM	0.43	0.55	0.13	-0.64	0.21	0.00	0.51	0.04		-0.14
RANGE(MAX-MIN)	1.230	1.380	1.630	2.560	0.520	1.390	1.200	1.300		-0.480
MEAN	0.748	1.135	0.735	0.835	0.510	0.463	0.603	0.173		-0.620
STANDARD DEVIATION	1.119	0.588	0.716	1.069	0.235	0.649	0.992	0.903		0.000

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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	
P1-8-SEQ. VG PISTONS	-1.06	-0.38	-0.34	0.17	0.38	-0.40	0.28	0.90		
Q1-8-SEQ. VG PISTONS	-0.30	-0.67	-0.10	-1.97	-0.62	-0.05	-0.85	0.79		
R1-8-SEQ. VH PISTONS	-0.21	-0.08	-0.17	0.58	-0.65	-1.36	-0.72	-0.01		
S1-8-SEQ. VH PISTONS	-1.30	-0.99	0.14	-0.46	0.30	0.10	-0.11	-0.79		
VRCBVL-RC BFL VARN L									-0.52	
VRCBVR-RC BFL VARN R									1.18	
MAXIMUM	-1.30	-0.99	-0.34	-1.97	-0.65	-1.36	-0.85	0.90	1.18	
MINIMUM	-0.21	-0.08	-0.10	0.17	0.30	-0.05	-0.11	-0.01	-0.52	
RANGE(MAX-MIN)	-1.090	-0.910	-0.240	-2.140	-0.950	-1.310	-0.740	0.910	1.700	
MEAN	-0.718	-0.530	-0.118	-0.420	-0.148	-0.428	-0.350	0.223	-0.520	
STANDARD DEVIATION	0.544	0.390	0.199	1.118	0.564	0.656	0.530	0.787	0.000	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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	
P1-8-SEQ. VG PISTONS	-1.43	0.35	0.13	0.09	0.47	1.60	1.88	-0.08		
Q1-8-SEQ. VG PISTONS	0.74	0.62	-0.18	0.08	-0.96	0.12	0.19	1.07		
R1-8-SEQ. VH PISTONS	-1.24	-1.24	-0.79	-0.32	-0.14	-0.71	-0.49	-0.95		
S1-8-SEQ. VH PISTONS										
VRCBVL-RC BFL VARN L										-0.14
VRCBVR-RC BFL VARN R										0.38
MAXIMUM	-1.43	-1.24	-0.79	-0.32	-0.96	1.60	1.88	1.07	0.38	
MINIMUM	0.74	0.35	0.13	0.08	-0.14	0.12	0.19	-0.08	-0.14	
RANGE(MAX-MIN)	-2.170	-1.590	-0.920	-0.400	-0.820	1.480	1.690	1.150	0.520	
MEAN	-0.643	-0.090	-0.280	-0.050	-0.210	0.337	0.527	0.013	-0.140	
STANDARD DEVIATION	1.202	1.005	0.468	0.234	0.718	1.170	1.220	1.013	0.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Hayden, Matthew

YI Values

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

PartID	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI	AVERAG	
P1-8-SEQ. VG PISTONS	-0.76	-0.29	-0.81	-2.16	-0.23	-0.60	0.28	-1.78		
Q1-8-SEQ. VG PISTONS										
R1-8-SEQ. VH PISTONS	0.82	0.46	1.63	1.32	1.17	1.46	2.36	1.61		
S1-8-SEQ. VH PISTONS	0.30	-0.08	0.82	0.46	0.30	0.24	1.51	0.60		
VRCBVL-RC BFL VARN L										-0.33
VRCBVR-RC BFL VARN R										0.78
MAXIMUM	0.82	0.46	1.63	-2.16	1.17	1.46	2.36	-1.78	0.78	
MINIMUM	0.30	-0.08	-0.81	0.46	-0.23	0.24	0.28	0.60	-0.33	
RANGE(MAX-MIN)	0.520	0.540	2.440	-2.620	1.400	1.220	2.080	-2.380	1.110	
MEAN	0.120	0.030	0.547	-0.127	0.413	0.367	1.383	0.143	-0.330	
STANDARD DEVIATION	0.805	0.387	1.243	1.813	0.707	1.036	1.046	1.741	0.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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	
P1-8-SEQ. VG PISTONS	-0.88	0.08	-1.40	-2.24	-2.25	-1.00	0.28	-0.79		
Q1-8-SEQ. VG PISTONS	0.13	-0.33	-0.10	0.56	-0.51	0.35	0.62	-1.00		
R1-8-SEQ. VH PISTONS	-2.07	-2.01	-2.13	-2.38	-2.49	-1.46	-1.17	-1.68		
S1-8-SEQ. VH PISTONS	-0.70	-0.81	-1.44	-1.73	-2.74	-2.75	-1.80	-2.39		
VRCBVL-RC BFL VARN L									0.24	
VRCBVR-RC BFL VARN R									-0.02	
MAXIMUM	-2.07	-2.01	-2.13	-2.38	-2.74	-2.75	-1.80	-2.39	0.24	
MINIMUM	0.13	0.08	-0.10	0.56	-0.51	0.35	0.28	-0.79	-0.02	
RANGE(MAX-MIN)	-2.200	-2.090	-2.030	-2.940	-2.230	-3.100	-2.080	-1.600	0.260	
MEAN	-0.880	-0.768	-1.268	-1.448	-1.998	-1.215	-0.518	-1.465	-0.020	
STANDARD DEVIATION	0.907	0.905	0.847	1.367	1.012	1.280	1.155	0.724	0.000	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= King, Jennifer

YI Values

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

PartID	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI	AVERAG	
P1-8-SEQ. VG PISTONS										
Q1-8-SEQ. VG PISTONS										
R1-8-SEQ. VH PISTONS										
S1-8-SEQ. VH PISTONS										
VRCBVL-RC BFL VARN L										
VRCBVR-RC BFL VARN R										
MAXIMUM										
MINIMUM										
RANGE(MAX-MIN)										
MEAN										
STANDARD DEVIATION										

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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
P1-8-SEQ. VG PISTONS	-0.40	-0.74	-1.64	-1.49	-1.29	-0.40	0.28	-2.22	
Q1-8-SEQ. VG PISTONS	-0.91	-0.33	-0.35	-0.81	0.10	-1.49	-0.60	0.03	
R1-8-SEQ. VH PISTONS	0.43	0.46	0.63	0.95	0.80	1.13	1.09	0.67	
S1-8-SEQ. VH PISTONS	0.50	0.41	-0.23	-0.09	0.77	0.58	-0.18	0.81	
VRCBVL-RC BFL VARN L									-1.46
VRCBVR-RC BFL VARN R									1.38
MAXIMUM	-0.91	-0.74	-1.64	-1.49	-1.29	-1.49	1.09	-2.22	-1.46
MINIMUM	-0.40	-0.33	-0.23	-0.09	0.10	-0.40	-0.18	0.03	1.38
RANGE(MAX-MIN)	-0.510	-0.410	-1.410	-1.400	-1.390	-1.090	1.270	-2.250	-2.840
MEAN	-0.095	-0.050	-0.398	-0.360	0.095	-0.045	0.148	-0.178	-1.460
STANDARD DEVIATION	0.680	0.585	0.936	1.044	0.978	1.153	0.724	1.403	0.000

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Kunk, Daniel

YI Values

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

PartID	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI	AVERAG	
P1-8-SEQ. VG PISTONS	2.81	1.53	0.48	1.30	1.00	0.20	1.08	1.70		
Q1-8-SEQ. VG PISTONS										
R1-8-SEQ. VH PISTONS	0.30	0.21	0.68	1.01	0.55	1.29	1.36	1.56		
S1-8-SEQ. VH PISTONS	0.90	0.41	0.25	-0.27	0.49	0.51	0.17	0.28		
VRCBVL-RC BFL VARN L										1.37
VRCBVR-RC BFL VARN R										0.78
MAXIMUM	2.81	1.53	0.68	1.30	1.00	1.29	1.36	1.70	1.37	
MINIMUM	0.30	0.21	0.25	-0.27	0.49	0.20	0.17	0.28	0.78	
RANGE(MAX-MIN)	2.510	1.320	0.430	1.570	0.510	1.090	1.190	1.420	0.590	
MEAN	1.337	0.717	0.470	0.680	0.680	0.667	0.870	1.180	0.780	
STANDARD DEVIATION	1.311	0.711	0.215	0.835	0.279	0.562	0.622	0.783	0.000	



## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Langford, Mike

YI Values

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

PartID	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI	AVERAG	
P1-8-SEQ. VG PISTONS	-0.94	-0.93	0.13	-0.58	-0.32	-0.40	1.88	0.72		
Q1-8-SEQ. VG PISTONS	0.99	1.23	0.07	0.27	-0.51	1.04	-0.89	1.75		
R1-8-SEQ. VH PISTONS	-2.20	-1.62	-0.98	-0.16	-0.43	-1.14	-0.85	-1.21		
S1-8-SEQ. VH PISTONS										
VRCBVL-RC BFL VARN L									1.75	
VRCBVR-RC BFL VARN R									-0.02	
MAXIMUM	-2.20	-1.62	-0.98	-0.58	-0.51	-1.14	1.88	1.75	1.75	
MINIMUM	-0.94	-0.93	0.07	-0.16	-0.32	-0.40	-0.85	0.72	-0.02	
RANGE(MAX-MIN)	-1.260	-0.690	-1.050	-0.420	-0.190	-0.740	2.730	1.030	1.770	
MEAN	-0.717	-0.440	-0.260	-0.157	-0.420	-0.167	0.047	0.420	-0.020	
STANDARD DEVIATION	1.607	1.487	0.624	0.425	0.095	1.109	1.588	1.503	0.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Li, Jie

YI Values

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

PartID	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI	AVERAG
P1-8-SEQ. VG PISTONS	0.33	-2.02	-0.93	0.77	0.20	-0.60	-0.68	0.63	
Q1-8-SEQ. VG PISTONS	1.05	1.57	1.32	0.43	1.38	0.70	0.73	0.52	
R1-8-SEQ. VH PISTONS									
S1-8-SEQ. VH PISTONS	-0.90	0.47	-0.06	-0.02	-0.43	-0.10	0.13	-0.15	
VRCBVL-RC BFL VARN L									-0.14
VRCBVR-RC BFL VARN R									-0.02
MAXIMUM	1.05	-2.02	1.32	0.77	1.38	0.70	0.73	0.63	-0.14
MINIMUM	0.33	0.47	-0.06	-0.02	0.20	-0.10	0.13	-0.15	-0.02
RANGE(MAX-MIN)	0.720	-2.490	1.380	0.790	1.180	0.800	0.600	0.780	-0.120
MEAN	0.160	0.007	0.110	0.393	0.383	0.000	0.060	0.333	-0.140
STANDARD DEVIATION	0.986	1.839	1.135	0.396	0.919	0.656	0.708	0.422	0.000

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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	
P1-8-SEQ. VG PISTONS	-1.24	1.35	1.31	0.92	0.73	1.60	0.28	0.01		
Q1-8-SEQ. VG PISTONS	-0.91	-1.42	-0.18	-0.94	-1.35	-1.09	-2.07	-0.31		
R1-8-SEQ. VH PISTONS	-0.92	-1.58	-0.60	0.37	-0.14	-0.60	-0.99	-0.74		
S1-8-SEQ. VH PISTONS	0.70	-1.48	-0.02	-0.42	0.12	0.31	-0.80	-0.36		
VRCBVL-RC BFL VARN L									-0.90	
VRCBVR-RC BFL VARN R									-0.82	
MAXIMUM	-1.24	-1.58	1.31	-0.94	-1.35	1.60	-2.07	-0.74	-0.90	
MINIMUM	0.70	1.35	-0.02	0.37	0.12	0.31	0.28	0.01	-0.82	
RANGE(MAX-MIN)	-1.940	-2.930	1.330	-1.310	-1.470	1.290	-2.350	-0.750	-0.080	
MEAN	-0.593	-0.783	0.128	-0.018	-0.160	0.055	-0.895	-0.350	-0.900	
STANDARD DEVIATION	0.875	1.423	0.825	0.825	0.873	1.182	0.963	0.307	0.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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	
P1-8-SEQ. VG PISTONS	0.99	-1.29	1.19	0.32	0.64	1.20	1.88	0.19		
Q1-8-SEQ. VG PISTONS	-0.60	0.68	-0.18	0.19	0.38	0.52	0.37	1.07		
R1-8-SEQ. VH PISTONS	-0.47	0.07	-0.22	0.00	-0.57	-0.44	0.05	-0.22		
S1-8-SEQ. VH PISTONS	0.50	-0.38	0.04	-0.05	0.58	0.24	-0.11	0.70		
VRCBVL-RC BFL VARN L									2.69	
VRCBVR-RC BFL VARN R									-0.62	
MAXIMUM	0.99	-1.29	1.19	0.32	0.64	1.20	1.88	1.07	2.69	
MINIMUM	-0.47	0.07	0.04	0.00	0.38	0.24	0.05	0.19	-0.62	
RANGE(MAX-MIN)	1.460	-1.360	1.150	0.320	0.260	0.960	1.830	0.880	3.310	
MEAN	0.105	-0.230	0.208	0.115	0.258	0.380	0.548	0.435	-0.620	
STANDARD DEVIATION	0.767	0.829	0.665	0.171	0.563	0.679	0.910	0.566	0.000	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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	
P1-8-SEQ. VG PISTONS	0.81	-0.74	0.13	0.47	0.20	0.20	-0.52	0.81		
Q1-8-SEQ. VG PISTONS	0.87	0.89	1.15	0.27	1.44	0.35	0.58	0.45		
R1-8-SEQ. VH PISTONS	0.24	0.21	-0.08	-0.37	-0.07	-0.17	0.28	-0.69		
S1-8-SEQ. VH PISTONS	-0.70	-0.02	0.31	-0.05	-0.06	0.10	0.27	0.28		
VRCBVL-RC BFL VARN L									0.61	
VRCBVR-RC BFL VARN R									0.58	
MAXIMUM	0.87	0.89	1.15	0.47	1.44	0.35	0.58	0.81	0.61	
MINIMUM	0.24	-0.02	-0.08	-0.05	-0.06	0.10	0.27	0.28	0.58	
RANGE(MAX-MIN)	0.630	0.910	1.230	0.520	1.500	0.250	0.310	0.530	0.030	
MEAN	0.305	0.085	0.378	0.080	0.378	0.120	0.153	0.213	0.580	
STANDARD DEVIATION	0.728	0.672	0.539	0.369	0.719	0.219	0.471	0.641	0.000	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Pitta, Jimmy

YI Values

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

PartID	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI	AVERAG	
P1-8-SEQ. VG PISTONS										
Q1-8-SEQ. VG PISTONS										
R1-8-SEQ. VH PISTONS										
S1-8-SEQ. VH PISTONS										
VRCBVL-RC BFL VARN L										
VRCBVR-RC BFL VARN R										
MAXIMUM										
MINIMUM										
RANGE(MAX-MIN)										
MEAN										
STANDARD DEVIATION										

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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	
P1-8-SEQ. VG PISTONS	0.81	0.08	-0.23	0.40	0.03	0.40	-1.32	0.81		
Q1-8-SEQ. VG PISTONS										
R1-8-SEQ. VH PISTONS	0.37	0.41	0.11	-0.58	-0.03	-0.27	0.14	-0.79		
S1-8-SEQ. VH PISTONS	-0.70	0.04	0.25	0.02	0.03	0.03	0.30	0.06		
VRCBVL-RC BFL VARN L										2.13
VRCBVR-RC BFL VARN R										2.38
MAXIMUM	0.81	0.41	0.25	-0.58	0.03	0.40	-1.32	0.81	2.38	
MINIMUM	0.37	0.04	0.11	0.02	0.03	0.03	0.14	0.06	2.13	
RANGE(MAX-MIN)	0.440	0.370	0.140	-0.600	0.000	0.370	-1.460	0.750	0.250	
MEAN	0.160	0.177	0.043	-0.053	0.010	0.053	-0.293	0.027	2.130	
STANDARD DEVIATION	0.777	0.203	0.247	0.494	0.050	0.336	0.893	0.801	0.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Sanchez, Arthur (Rerate)

YI Values

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

PartID	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI	AVERAG	
P1-8-SEQ. VG PISTONS	-0.22	0.71	1.07	1.30	0.12	1.00	-1.16	-0.88		
Q1-8-SEQ. VG PISTONS										
R1-8-SEQ. VH PISTONS	1.01	1.04	0.97	0.26	1.35	-0.27	1.59	0.98		
S1-8-SEQ. VH PISTONS	0.10	0.29	0.35	1.00	0.40	0.37	0.99	0.70		
VRCBVL-RC BFL VARN L										
VRCBVR-RC BFL VARN R										
MAXIMUM	1.01	1.04	1.07	1.30	1.35	1.00	1.59	0.98		
MINIMUM	0.10	0.29	0.35	0.26	0.12	-0.27	0.99	0.70		
RANGE(MAX-MIN)	0.910	0.750	0.720	1.040	1.230	1.270	0.600	0.280		
MEAN	0.297	0.680	0.797	0.853	0.623	0.367	0.473	0.267		
STANDARD DEVIATION	0.638	0.376	0.390	0.535	0.645	0.635	1.446	1.003		



## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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	
P1-8-SEQ. VG PISTONS	0.75	1.44	0.83	1.07	1.26	0.80	0.60	-0.62		
Q1-8-SEQ. VG PISTONS	1.17	1.02	0.57	0.03	0.21	0.75	1.23	1.07		
R1-8-SEQ. VH PISTONS	2.04	1.91	2.16	1.27	1.17	1.89	1.64	1.82		
S1-8-SEQ. VH PISTONS										
VRCBVL-RC BFL VARN L										-0.14
VRCBVR-RC BFL VARN R										-0.62
MAXIMUM	2.04	1.91	2.16	1.27	1.26	1.89	1.64	1.82		-0.62
MINIMUM	0.75	1.02	0.57	0.03	0.21	0.75	0.60	-0.62		-0.14
RANGE(MAX-MIN)	1.290	0.890	1.590	1.240	1.050	1.140	1.040	2.440		-0.480
MEAN	1.320	1.457	1.187	0.790	0.880	1.147	1.157	0.757		-0.620
STANDARD DEVIATION	0.658	0.445	0.853	0.666	0.582	0.644	0.524	1.250		0.000

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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	
P1-8-SEQ. VG PISTONS	-4.33	-4.57	-7.17	-3.74	-4.80	-12.40	0.44	-4.63		
Q1-8-SEQ. VG PISTONS	-0.85	-0.20	-7.43	-0.21	-3.07	1.10	-1.85	-0.31		
R1-8-SEQ. VH PISTONS	-2.33	-1.53	-1.51	-1.48	-0.18	-0.22	-0.49	-0.58		
S1-8-SEQ. VH PISTONS										
VRCBVL-RC BFL VARN L										
VRCBVR-RC BFL VARN R										
MAXIMUM	-4.33	-4.57	-7.43	-3.74	-4.80	-12.40	-1.85	-4.63		
MINIMUM	-0.85	-0.20	-1.51	-0.21	-0.18	-0.22	0.44	-0.31		
RANGE(MAX-MIN)	-3.480	-4.370	-5.920	-3.530	-4.620	-12.180	-2.290	-4.320		
MEAN	-2.503	-2.100	-5.370	-1.810	-2.683	-3.840	-0.633	-1.840		
STANDARD DEVIATION	1.746	2.240	3.345	1.788	2.334	7.442	1.152	2.420		

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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	
P1-8-SEQ. VG PISTONS										
Q1-8-SEQ. VG PISTONS										
R1-8-SEQ. VH PISTONS										
S1-8-SEQ. VH PISTONS										
VRCBVL-RC BFL VARN L										
VRCBVR-RC BFL VARN R										
MAXIMUM										
MINIMUM										
RANGE(MAX-MIN)										
MEAN										
STANDARD DEVIATION										

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Trevino, Robert

YI Values

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

PartID	P1MERI	P2MERI	P3MERI	P4MERI	P5MERI	P6MERI	P7MERI	P8MERI	AVERAG	
P1-8-SEQ. VG PISTONS	-0.04	-0.56	-0.34	0.17	0.03	-0.60	-1.32	0.99		
Q1-8-SEQ. VG PISTONS	0.25	0.62	0.82	0.56	0.66	-0.23	0.40	0.52		
R1-8-SEQ. VH PISTONS	-0.66	-0.12	-0.17	-0.74	-0.54	-0.82	0.01	-0.48		
S1-8-SEQ. VH PISTONS										
VRCBVL-RC BFL VARN L										-0.14
VRCBVR-RC BFL VARN R										-0.62
MAXIMUM	-0.66	0.62	0.82	-0.74	0.66	-0.82	-1.32	0.99	-0.62	
MINIMUM	-0.04	-0.12	-0.17	0.17	0.03	-0.23	0.01	-0.48	-0.14	
RANGE(MAX-MIN)	-0.620	0.740	0.990	-0.910	0.630	-0.590	-1.330	1.470	-0.480	
MEAN	-0.150	-0.020	0.103	-0.003	0.050	-0.550	-0.303	0.343	-0.620	
STANDARD DEVIATION	0.465	0.596	0.626	0.667	0.600	0.298	0.902	0.751	0.000	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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	
P1-8-SEQ. VG PISTONS										
Q1-8-SEQ. VG PISTONS										
R1-8-SEQ. VH PISTONS										
S1-8-SEQ. VH PISTONS										
VRCBVL-RC BFL VARN L									1.75	
VRCBVR-RC BFL VARN R									1.38	
MAXIMUM									1.75	
MINIMUM									1.38	
RANGE(MAX-MIN)									0.370	
MEAN									1.380	
STANDARD DEVIATION									0.000	

## LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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
P1-8-SEQ. VG PISTONS	-1.61	-2.20	-2.35	-0.66	-1.29	-3.20	-0.84	-0.35	
Q1-8-SEQ. VG PISTONS	-0.78	1.02	-2.76	-0.92	-2.68	-1.95	0.33	-2.71	
R1-8-SEQ. VH PISTONS	0.24	-0.17	-0.13	-0.58	-0.03	-0.38	0.51	0.10	
S1-8-SEQ. VH PISTONS	-2.90	0.65	-0.26	0.49	-3.11	-1.05	0.10	-2.49	
VRCBVL-RC BFL VARN L									-2.03
VRCBVR-RC BFL VARN R									-2.02
MAXIMUM	-2.90	-2.20	-2.76	-0.92	-3.11	-3.20	-0.84	-2.71	-2.03
MINIMUM	0.24	-0.17	-0.13	0.49	-0.03	-0.38	0.10	0.10	-2.02
RANGE(MAX-MIN)	-3.140	-2.030	-2.630	-1.410	-3.080	-2.820	-0.940	-2.810	-0.010
MEAN	-1.263	-0.175	-1.375	-0.418	-1.778	-1.645	0.025	-1.363	-2.030
STANDARD DEVIATION	1.328	1.439	1.374	0.622	1.400	1.220	0.601	1.443	0.000

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Aguirre, Nancy P

YI Values

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

PartID	TOTALS	
VOP-OIL PAN SLUDGE	0.68	
VOPB-OIL PAN BFL SLUDGE	1.51	
VRCL-RC BFL SLUDGE L	0.86	
VRCL-RC BFL SLUDGE R	2.07	
VRCL-RC SLUDGE L	1.01	
VRCL-RC SLUDGE R	0.96	
VTCC-TC CVR SLUDGE	0.80	
VVDL-VALVE DECK SLUDGE L	0.69	
VVDL-VALVE DECK SLUDGE R	0.28	
MAXIMUM	2.07	
MINIMUM	0.28	
RANGE(MAX-MIN)	1.790	
MEAN	0.984	
STANDARD DEVIATION	0.522	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Arrizon, 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		
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 (April 3-7, 2017)

Rater= Barrera, Tony

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	1.08	
VRCL-RC BFL SLUDGE L	-1.86	
VRCL-RC BFL SLUDGE R	-0.93	
VRCL-RC SLUDGE L	0.25	
VRCL-RC SLUDGE R	1.05	
VTCC-TC CVR SLUDGE	1.35	
VVDL-VALVE DECK SLUDGE L	0.69	
VVDL-VALVE DECK SLUDGE R	-0.32	
MAXIMUM	-1.86	
MINIMUM	0.09	
RANGE(MAX-MIN)	-1.950	
MEAN	0.156	
STANDARD DEVIATION	1.052	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Bolaney, Jonathan

YI Values

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

PartID	TOTALS	
VOP-OIL PAN SLUDGE	-0.89	
VOPB-OIL PAN BFL SLUDGE	-0.01	
VRCL-RC BFL SLUDGE L	0.86	
VRCL-RC BFL SLUDGE R	-0.63	
VRCL-RC SLUDGE L	0.33	
VRCL-RC SLUDGE R	0.55	
VTCC-TC CVR SLUDGE	-0.18	
VVDL-VALVE DECK SLUDGE L	-0.34	
VVDL-VALVE DECK SLUDGE R	0.48	
MAXIMUM	-0.89	
MINIMUM	-0.01	
RANGE(MAX-MIN)	-0.880	
MEAN	0.019	
STANDARD DEVIATION	0.583	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Cales, Jonathon

YI Values

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

PartID	TOTALS	
VOP-OIL PAN SLUDGE	0.19	
VOPB-OIL PAN BFL SLUDGE	-0.81	
VRCL-RC BFL SLUDGE L	0.46	
VRCL-RC BFL SLUDGE R	-0.72	
VRCL-RC SLUDGE L	0.08	
VRCL-RC SLUDGE R	-0.84	
VTCC-TC CVR SLUDGE	1.78	
VVDL-VALVE DECK SLUDGE L	-0.86	
VVDL-VALVE DECK SLUDGE R	-0.72	
MAXIMUM	1.78	
MINIMUM	0.08	
RANGE(MAX-MIN)	1.700	
MEAN	-0.160	
STANDARD DEVIATION	0.890	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Campbell, Bryan

YI Values

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

PartID	TOTALS	
VOP-OIL PAN SLUDGE	0.19	
VOPB-OIL PAN BFL SLUDGE	1.51	
VRCL-RC BFL SLUDGE L	1.48	
VRCL-RC BFL SLUDGE R	0.11	
VRCL-RC SLUDGE L	-0.26	
VRCL-RC SLUDGE R	0.80	
VTCC-TC CVR SLUDGE	0.80	
VVDL-VALVE DECK SLUDGE L	0.00	
VVDL-VALVE DECK SLUDGE R	-0.32	
MAXIMUM	1.51	
MINIMUM	0.00	
RANGE(MAX-MIN)	1.510	
MEAN	0.479	
STANDARD DEVIATION	0.699	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Caproni, David

YI Values

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

PartID	TOTALS	
VOP-OIL PAN SLUDGE	0.38	
VOPB-OIL PAN BFL SLUDGE	0.57	
VRCL-RC BFL SLUDGE L	-0.05	
VRCL-RC BFL SLUDGE R	-0.63	
VRCL-RC SLUDGE L	-0.85	
VRCL-RC SLUDGE R	-1.90	
VTCC-TC CVR SLUDGE	-1.28	
VVDL-VALVE DECK SLUDGE L	0.34	
VVDL-VALVE DECK SLUDGE R	-0.12	
MAXIMUM	-1.90	
MINIMUM	-0.05	
RANGE(MAX-MIN)	-1.850	
MEAN	-0.393	
STANDARD DEVIATION	0.835	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Castillo, George

YI Values

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

PartID	TOTALS	
VOP-OIL PAN SLUDGE	-0.01	
VOPB-OIL PAN BFL SLUDGE	-0.16	
VRCL-RC BFL SLUDGE L	-0.48	
VRCL-RC BFL SLUDGE R	-0.84	
VRCL-RC SLUDGE L	-1.87	
VRCL-RC SLUDGE R	-0.02	
VTCC-TC CVR SLUDGE	-0.73	
VVDL-VALVE DECK SLUDGE L	-1.20	
VVDL-VALVE DECK SLUDGE R	-0.32	
MAXIMUM	-1.87	
MINIMUM	-0.01	
RANGE(MAX-MIN)	-1.860	
MEAN	-0.626	
STANDARD DEVIATION	0.614	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Cumberworth, Lee

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	0.50	
VRCBL-RC BFL SLUDGE L	0.97	
VRCBR-RC BFL SLUDGE R	-0.41	
VRCL-RC SLUDGE L	-0.85	
VRCL-RC SLUDGE R	-0.51	
VTCC-TC CVR SLUDGE	-0.38	
VVDL-VALVE DECK SLUDGE L	-0.51	
VVDR-VALVE DECK SLUDGE R	0.08	
MAXIMUM	0.97	
MINIMUM	0.08	
RANGE(MAX-MIN)	0.890	
MEAN	-0.027	
STANDARD DEVIATION	0.662	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= DeCapite, Vanessa

YI Values

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

PartID	TOTALS	
VOP-OIL PAN SLUDGE	-0.99	
VOPB-OIL PAN BFL SLUDGE	0.06	
VRCL-RC BFL SLUDGE L	0.75	
VRCL-RC BFL SLUDGE R	-0.63	
VRCL-RC SLUDGE L	1.94	
VRCL-RC SLUDGE R	0.39	
VTCC-TC CVR SLUDGE	0.60	
VVDL-VALVE DECK SLUDGE L	0.86	
VVDL-VALVE DECK SLUDGE R	0.08	
MAXIMUM	1.94	
MINIMUM	0.06	
RANGE(MAX-MIN)	1.880	
MEAN	0.340	
STANDARD DEVIATION	0.861	



# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Dominguez, Lucio

YI Values

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

PartID	TOTALS	
VOP-OIL PAN SLUDGE	1.07	
VOPB-OIL PAN BFL SLUDGE	1.37	
VRCL-RC BFL SLUDGE L	0.71	
VRCL-RC BFL SLUDGE R	1.89	
VRCL-RC SLUDGE L	0.67	
VRCL-RC SLUDGE R	1.05	
VTCC-TC CVR SLUDGE	1.04	
VVDL-VALVE DECK SLUDGE L	0.69	
VVDL-VALVE DECK SLUDGE R	0.28	
MAXIMUM	1.89	
MINIMUM	0.28	
RANGE(MAX-MIN)	1.610	
MEAN	0.974	
STANDARD DEVIATION	0.466	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Foecking, Brian

YI Values

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

PartID	TOTALS	
VOP-OIL PAN SLUDGE	0.97	
VOPB-OIL PAN BFL SLUDGE	0.50	
VRCBL-RC BFL SLUDGE L	0.61	
VRCBR-RC BFL SLUDGE R	-0.32	
VRCL-RC SLUDGE L	0.59	
VRCL-RC SLUDGE R	0.64	
VTCC-TC CVR SLUDGE	1.00	
VVDL-VALVE DECK SLUDGE L	1.03	
VVDR-VALVE DECK SLUDGE R	0.48	
MAXIMUM	1.03	
MINIMUM	-0.32	
RANGE(MAX-MIN)	1.350	
MEAN	0.611	
STANDARD DEVIATION	0.411	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Greenland, Paul

YI Values

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

PartID	TOTALS	
VOP-OIL PAN SLUDGE	0.68	
VOPB-OIL PAN BFL SLUDGE	-0.74	
VRCBL-RC BFL SLUDGE L	0.24	
VRCBR-RC BFL SLUDGE R	1.31	
VRCL-RC SLUDGE L	0.75	
VRCL-RC SLUDGE R	-0.18	
VTCC-TC CVR SLUDGE	-0.62	
VVDL-VALVE DECK SLUDGE L	1.03	
VVDR-VALVE DECK SLUDGE R	1.68	
MAXIMUM	1.68	
MINIMUM	-0.18	
RANGE(MAX-MIN)	1.860	
MEAN	0.461	
STANDARD DEVIATION	0.847	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Hayden, Matthew

YI Values

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

PartID	TOTALS	
VOP-OIL PAN SLUDGE	0.38	
VOPB-OIL PAN BFL SLUDGE	-0.37	
VRCBL-RC BFL SLUDGE L	1.15	
VRCBR-RC BFL SLUDGE R	1.03	
VRCL-RC SLUDGE L	-0.60	
VRCL-RC SLUDGE R	-0.51	
VTCC-TC CVR SLUDGE	-0.89	
VVDL-VALVE DECK SLUDGE L	-1.88	
VVDR-VALVE DECK SLUDGE R	-0.12	
MAXIMUM	-1.88	
MINIMUM	-0.12	
RANGE(MAX-MIN)	-1.760	
MEAN	-0.201	
STANDARD DEVIATION	0.953	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Hurst, Kevin R.

YI Values

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

PartID	TOTALS	
VOP-OIL PAN SLUDGE	-1.48	
VOPB-OIL PAN BFL SLUDGE	-1.53	
VRCBL-RC BFL SLUDGE L	-0.30	
VRCBR-RC BFL SLUDGE R	0.32	
VRCL-RC SLUDGE L	0.84	
VRCL-RC SLUDGE R	0.72	
VTCC-TC CVR SLUDGE	0.37	
VVDL-VALVE DECK SLUDGE L	0.69	
VVDR-VALVE DECK SLUDGE R	1.28	
MAXIMUM	-1.53	
MINIMUM	-0.30	
RANGE(MAX-MIN)	-1.230	
MEAN	0.101	
STANDARD DEVIATION	1.007	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= King, Jennifer

YI Values

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

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

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Kobrinetz, Joaquin J.

YI Values

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

PartID	TOTALS	
VOP-OIL PAN SLUDGE	-0.30	
VOPB-OIL PAN BFL SLUDGE	-0.16	
VRCL-RC BFL SLUDGE L	0.21	
VRCL-RC BFL SLUDGE R	0.69	
VRCL-RC SLUDGE L	-1.36	
VRCL-RC SLUDGE R	-0.84	
VTCC-TC CVR SLUDGE	-0.81	
VVDL-VALVE DECK SLUDGE L	0.00	
VVDL-VALVE DECK SLUDGE R	-0.12	
MAXIMUM	-1.36	
MINIMUM	0.00	
RANGE(MAX-MIN)	-1.360	
MEAN	-0.299	
STANDARD DEVIATION	0.618	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Kunk, Daniel

YI Values

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

PartID	TOTALS	
VOP-OIL PAN SLUDGE	0.38	
VOPB-OIL PAN BFL SLUDGE	-0.16	
VRCBL-RC BFL SLUDGE L	0.86	
VRCBR-RC BFL SLUDGE R	-0.50	
VRCL-RC SLUDGE L	-0.26	
VRCL-RC SLUDGE R	0.23	
VTCC-TC CVR SLUDGE	-0.73	
VVDL-VALVE DECK SLUDGE L	-1.54	
VVDR-VALVE DECK SLUDGE R	-0.52	
MAXIMUM	-1.54	
MINIMUM	-0.16	
RANGE(MAX-MIN)	-1.380	
MEAN	-0.249	
STANDARD DEVIATION	0.698	



# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Langford, Mike

YI Values

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

PartID	TOTALS	
VOP-OIL PAN SLUDGE	0.68	
VOPB-OIL PAN BFL SLUDGE	0.21	
VRCL-RC BFL SLUDGE L	-0.01	
VRCL-RC BFL SLUDGE R	1.15	
VRCL-RC SLUDGE L	1.18	
VRCL-RC SLUDGE R	-0.35	
VTCC-TC CVR SLUDGE	-0.62	
VVDL-VALVE DECK SLUDGE L	1.20	
VVDL-VALVE DECK SLUDGE R	1.48	
MAXIMUM	1.48	
MINIMUM	-0.01	
RANGE(MAX-MIN)	1.490	
MEAN	0.547	
STANDARD DEVIATION	0.764	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Li, Jie

YI Values

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

PartID	TOTALS	
VOP-OIL PAN SLUDGE	-1.67	
VOPB-OIL PAN BFL SLUDGE	-1.24	
VRCL-RC BFL SLUDGE L	-0.92	
VRCL-RC BFL SLUDGE R	-0.63	
VRCL-RC SLUDGE L	1.09	
VRCL-RC SLUDGE R	0.80	
VTCC-TC CVR SLUDGE	-0.93	
VVDL-VALVE DECK SLUDGE L	-1.20	
VVDL-VALVE DECK SLUDGE R	-1.72	
MAXIMUM	-1.72	
MINIMUM	-0.63	
RANGE(MAX-MIN)	-1.090	
MEAN	-0.713	
STANDARD DEVIATION	1.005	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Lonsway, Chris

YI Values

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

PartID	TOTALS	
VOP-OIL PAN SLUDGE	1.17	
VOPB-OIL PAN BFL SLUDGE	0.86	
VRCL-RC BFL SLUDGE L	0.86	
VRCL-RC BFL SLUDGE R	1.73	
VRCL-RC SLUDGE L	1.18	
VRCL-RC SLUDGE R	1.95	
VTCC-TC CVR SLUDGE	0.05	
VVDL-VALVE DECK SLUDGE L	1.54	
VVDL-VALVE DECK SLUDGE R	0.88	
MAXIMUM	1.95	
MINIMUM	0.05	
RANGE(MAX-MIN)	1.900	
MEAN	1.136	
STANDARD DEVIATION	0.568	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Lopez, Frank

YI Values

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

PartID	TOTALS	
VOP-OIL PAN SLUDGE	1.17	
VOPB-OIL PAN BFL SLUDGE	1.37	
VRCBL-RC BFL SLUDGE L	-0.16	
VRCBR-RC BFL SLUDGE R	0.60	
VRCL-RC SLUDGE L	-0.01	
VRCL-RC SLUDGE R	0.39	
VTCC-TC CVR SLUDGE	1.19	
VVDL-VALVE DECK SLUDGE L	0.69	
VVDR-VALVE DECK SLUDGE R	0.48	
MAXIMUM	1.37	
MINIMUM	-0.01	
RANGE(MAX-MIN)	1.380	
MEAN	0.636	
STANDARD DEVIATION	0.533	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= May, Marianne

YI Values

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

PartID	TOTALS	
VOP-OIL PAN SLUDGE	-0.20	
VOPB-OIL PAN BFL SLUDGE	-0.52	
VRCL-RC BFL SLUDGE L	-1.17	
VRCL-RC BFL SLUDGE R	-1.06	
VRCL-RC SLUDGE L	-1.11	
VRCL-RC SLUDGE R	-0.59	
VTCC-TC CVR SLUDGE	-0.10	
VVDL-VALVE DECK SLUDGE L	-0.34	
VVDL-VALVE DECK SLUDGE R	-0.32	
MAXIMUM	-1.17	
MINIMUM	-0.10	
RANGE(MAX-MIN)	-1.070	
MEAN	-0.601	
STANDARD DEVIATION	0.412	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Pitta, Jimmy

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		
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 (April 3-7, 2017)

Rater= Rodriguez, Jesus (Jesse)

YI Values

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

PartID	TOTALS	
VOP-OIL PAN SLUDGE	-0.01	
VOPB-OIL PAN BFL SLUDGE	-0.88	
VRCL-RC BFL SLUDGE L	-1.97	
VRCL-RC BFL SLUDGE R	-1.15	
VRCL-RC SLUDGE L	0.25	
VRCL-RC SLUDGE R	-2.80	
VTCC-TC CVR SLUDGE	1.43	
VVDL-VALVE DECK SLUDGE L	0.69	
VVDL-VALVE DECK SLUDGE R	-1.52	
MAXIMUM	-2.80	
MINIMUM	-0.01	
RANGE(MAX-MIN)	-2.790	
MEAN	-0.662	
STANDARD DEVIATION	1.359	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Sanchez, Arthur (Rerate)

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		
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 (April 3-7, 2017)

Rater= Sanchez, Arthur

YI Values

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

PartID	TOTALS	
VOP-OIL PAN SLUDGE	-1.08	
VOPB-OIL PAN BFL SLUDGE	-0.30	
VRCL-RC BFL SLUDGE L	-1.24	
VRCL-RC BFL SLUDGE R	-0.96	
VRCL-RC SLUDGE L	-0.77	
VRCL-RC SLUDGE R	0.31	
VTCC-TC CVR SLUDGE	-0.30	
VVDL-VALVE DECK SLUDGE L	0.17	
VVDR-VALVE DECK SLUDGE R	0.68	
MAXIMUM	-1.24	
MINIMUM	0.17	
RANGE(MAX-MIN)	-1.410	
MEAN	-0.388	
STANDARD DEVIATION	0.674	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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		
VRCL-RC BFL SLUDGE L		
VRCL-RC BFL SLUDGE R		
VRCL-RC SLUDGE L		
VRCL-RC SLUDGE R		
VTCC-TC CVR SLUDGE		
VVDL-VALVE DECK SLUDGE L		
VVDL-VALVE DECK SLUDGE R		
MAXIMUM		
MINIMUM		
RANGE(MAX-MIN)		
MEAN		
STANDARD DEVIATION		

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

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		
VRCL-RC BFL SLUDGE L		
VRCL-RC BFL SLUDGE R		
VRCL-RC SLUDGE L		
VRCL-RC SLUDGE R		
VTCC-TC CVR SLUDGE		
VVDL-VALVE DECK SLUDGE L		
VVDL-VALVE DECK SLUDGE R		
MAXIMUM		
MINIMUM		
RANGE(MAX-MIN)		
MEAN		
STANDARD DEVIATION		

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Trevino, Robert

YI Values

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

PartID	TOTALS	
VOP-OIL PAN SLUDGE	-0.20	
VOPB-OIL PAN BFL SLUDGE	-0.30	
VRCL-RC BFL SLUDGE L	-1.24	
VRCL-RC BFL SLUDGE R	-1.06	
VRCL-RC SLUDGE L	-0.09	
VRCL-RC SLUDGE R	0.06	
VTCC-TC CVR SLUDGE	0.45	
VVDL-VALVE DECK SLUDGE L	-0.51	
VVDL-VALVE DECK SLUDGE R	-0.52	
MAXIMUM	-1.24	
MINIMUM	0.06	
RANGE(MAX-MIN)	-1.300	
MEAN	-0.379	
STANDARD DEVIATION	0.530	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Veiga, Victor

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	0.35	
VRCL-RC BFL SLUDGE L	0.86	
VRCL-RC BFL SLUDGE R	-0.63	
VRCL-RC SLUDGE L	0.08	
VRCL-RC SLUDGE R	-0.26	
VTCC-TC CVR SLUDGE	-0.93	
VVDL-VALVE DECK SLUDGE L	0.34	
VVDL-VALVE DECK SLUDGE R	-0.52	
MAXIMUM	-0.93	
MINIMUM	0.08	
RANGE(MAX-MIN)	-1.010	
MEAN	0.018	
STANDARD DEVIATION	0.646	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Rater= Viera, Ralph B.

YI Values

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

PartID	TOTALS	
VOP-OIL PAN SLUDGE	-2.94	
VOPB-OIL PAN BFL SLUDGE	-2.70	
VRCBL-RC BFL SLUDGE L	-1.46	
VRCBR-RC BFL SLUDGE R	0.17	
VRCL-RC SLUDGE L	-2.20	
VRCL-RC SLUDGE R	-1.08	
VTCC-TC CVR SLUDGE	-2.35	
VVDL-VALVE DECK SLUDGE L	-2.23	
VVDR-VALVE DECK SLUDGE R	-1.12	
MAXIMUM	-2.94	
MINIMUM	0.17	
RANGE(MAX-MIN)	-3.110	
MEAN	-1.768	
STANDARD DEVIATION	0.983	

# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

## Light Duty Piston Deposits

Rater	Parts Rated	-1<yi<=1	-2<yi<=2	-3<yi<=3	>3	Yi STD	Group	Group Color
Aguirre, Nancy P	18	71.4%	100.0%	100.0%	0.0%	0.81	WHITE	
Barrera, Tony	18	77.0%	99.2%	100.0%	0.0%	0.77	WHITE	
Cumberworth, Lee	18	75.4%	98.4%	100.0%	0.0%	0.79	WHITE	
Dominguez, Lucio	18	80.2%	97.6%	99.2%	0.8%	0.77	RED	
Foecking, Brian	18	61.9%	99.2%	100.0%	0.0%	0.95	WHITE	
Hurst, Kevin R.	18	63.5%	91.3%	100.0%	0.0%	0.98	WHITE	
Kobrinetz, Joaquin J.	18	81.8%	99.2%	100.0%	0.0%	0.75	RED	
Lonsway, Chris	18	80.2%	99.2%	100.0%	0.0%	0.81	RED	
Lopez, Frank	18	63.5%	94.4%	100.0%	0.0%	1.05	WHITE	
May, Marianne	18	65.9%	97.6%	100.0%	0.0%	0.90	WHITE	
Sanchez, Arthur	9	58.7%	98.4%	100.0%	0.0%	1.01	YELLOW	
Trevino, Robert	14	66.3%	98.0%	100.0%	0.0%	0.87	WHITE	
Arrizon, Richard	6	78.6%	92.9%	100.0%	0.0%	0.96	WHITE	
Bolaney, Jonathan	7	69.4%	93.9%	100.0%	0.0%	1.04	WHITE	
Cales, Jonathon	6	88.1%	95.2%	100.0%	0.0%	0.82	RED	
Campbell, Bryan	6	45.2%	73.8%	88.1%	11.9%	1.62	YELLOW	
Caproni, David	6	66.7%	95.2%	100.0%	0.0%	0.98	WHITE	
Castillo, George	12	65.5%	92.9%	100.0%	0.0%	0.91	WHITE	
DeCapite, Vanessa	10	64.3%	90.0%	100.0%	0.0%	1.10	WHITE	
Greenland, Paul	6	61.9%	90.5%	100.0%	0.0%	1.00	WHITE	
Hayden, Matthew	8	69.6%	94.6%	98.2%	1.8%	1.00	WHITE	
King, Jennifer	6	81.0%	97.6%	100.0%	0.0%	0.82	RED	
Kunk, Daniel	8	62.5%	96.4%	100.0%	0.0%	1.05	WHITE	
Langford, Mike	7	59.2%	93.9%	100.0%	0.0%	1.09	YELLOW	
Li, Jie	12	65.5%	94.1%	100.0%	0.0%	1.09	WHITE	
Pitta, Jimmy	8	55.4%	89.3%	98.2%	1.8%	1.07	YELLOW	
Rodriguez, Jesus (Jesse)	7	73.5%	91.8%	100.0%	0.0%	0.93	WHITE	
Sanchez, Arthur (Rerate)	10	60.0%	98.6%	100.0%	0.0%	0.98	WHITE	
Swanson, Dennis	12	57.1%	96.4%	100.0%	0.0%	1.12	YELLOW	
Terrado, Ken	7	63.3%	95.9%	100.0%	0.0%	1.10	WHITE	
Veiga, Victor	9	69.8%	96.8%	100.0%	0.0%	1.02	WHITE	
Viera, Ralph B.	12	47.6%	85.7%	98.8%	1.2%	1.13	YELLOW	

### 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	21	66%
Red	6	80%	95%	0.85	5	16%
Blue	6	85%	98%	0.75	0	0%
Yellow	-	-	-	-	6	19%

LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Sequence V Varnish

Rater	Parts Rated	-1<yi<=1	-2<yi<=2	-3<yi<=3	>3	Yi STD	Group	Group Color
Aguirre, Nancy P	34	67.7%	100.0%	100.0%	0.0%	0.91	WHITE	
Barrera, Tony	34	64.7%	94.1%	100.0%	0.0%	1.04	WHITE	
Cumberworth, Lee	34	76.5%	100.0%	100.0%	0.0%	0.81	WHITE	
Dominguez, Lucio	34	70.6%	100.0%	100.0%	0.0%	0.80	WHITE	
Foecking, Brian	34	85.3%	100.0%	100.0%	0.0%	0.67	BLUE	
Hurst, Kevin R.	34	50.0%	70.6%	100.0%	0.0%	1.04	YELLOW	
Kobrinetz, Joaquin J.	34	73.5%	97.1%	100.0%	0.0%	0.92	WHITE	
Lonsway, Chris	34	70.6%	97.1%	100.0%	0.0%	0.90	WHITE	
Lopez, Frank	34	82.4%	97.1%	100.0%	0.0%	0.77	RED	
May, Marianne	34	94.1%	100.0%	100.0%	0.0%	0.51	BLUE	
Sanchez, Arthur	26	42.3%	92.3%	100.0%	0.0%	0.75	YELLOW	
Trevino, Robert	26	96.2%	100.0%	100.0%	0.0%	0.58	BLUE	
Bolaney, Jonathan	26	88.5%	100.0%	100.0%	0.0%	0.73	BLUE	
Cales, Jonathon	26	88.5%	96.2%	96.2%	3.9%	0.86	WHITE	
Campbell, Bryan	18	33.3%	77.8%	94.4%	5.6%	1.53	YELLOW	
Caproni, David	26	69.2%	100.0%	100.0%	0.0%	0.84	WHITE	
Castillo, George	26	76.9%	92.3%	100.0%	0.0%	0.92	WHITE	
DeCapite, Vanessa	26	80.8%	92.3%	100.0%	0.0%	0.91	WHITE	
Greenland, Paul	26	76.9%	100.0%	100.0%	0.0%	0.83	WHITE	
Hayden, Matthew	26	65.4%	92.3%	100.0%	0.0%	1.06	WHITE	
Kunk, Daniel	26	61.5%	96.2%	100.0%	0.0%	0.66	WHITE	
Langford, Mike	26	65.4%	96.2%	100.0%	0.0%	1.08	WHITE	
Li, Jie	26	80.8%	96.2%	100.0%	0.0%	0.81	RED	
Rodriguez, Jesus (Jesse)	26	88.5%	92.3%	100.0%	0.0%	0.77	WHITE	
Sanchez, Arthur (Rerate)	24	66.7%	100.0%	100.0%	0.0%	0.69	WHITE	
Swanson, Dennis	24	37.5%	58.3%	62.5%	37.5%	3.13	YELLOW	
Veiga, Victor	2	0.0%	100.0%	100.0%	0.0%	0.00	N/A	
Viera, Ralph B.	34	52.9%	67.7%	94.1%	5.9%	1.25	YELLOW	

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	16	59%
Red	6	80%	95%	0.85	2	7%
Blue	6	85%	98%	0.75	4	15%
Yellow	-	-	-	-	5	19%



# LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

## Induction & Combustion Deposits

Rater	Parts Rated	-1<yi<=1	-2<yi<=2	-3<yi<=3	>3	Yi STD	Group	Group Color
Aguirre, Nancy P	10	75.0%	100.0%	100.0%	0.0%	0.92	WHITE	
Barrera, Tony	10	54.2%	100.0%	100.0%	0.0%	1.09	YELLOW	
Cumberworth, Lee	10	45.8%	95.8%	100.0%	0.0%	1.01	YELLOW	
Dominguez, Lucio	10	50.0%	100.0%	100.0%	0.0%	0.72	YELLOW	
Foecking, Brian	10	58.3%	100.0%	100.0%	0.0%	0.96	YELLOW	
Hurst, Kevin R.	10	50.0%	83.3%	100.0%	0.0%	0.91	YELLOW	
Kobrinetz, Joaquin J.	10	95.8%	100.0%	100.0%	0.0%	0.47	BLUE	
Lonsway, Chris	10	54.2%	95.8%	100.0%	0.0%	0.64	YELLOW	
Lopez, Frank	10	41.7%	87.5%	100.0%	0.0%	0.98	YELLOW	
May, Marianne	2	87.5%	100.0%	100.0%	0.0%	0.54	N/A	
Sanchez, Arthur	10	83.3%	95.8%	100.0%	0.0%	0.93	WHITE	
Trevino, Robert	10	95.8%	100.0%	100.0%	0.0%	0.64	BLUE	
Bolaney, Jonathan	10	91.7%	100.0%	100.0%	0.0%	0.59	BLUE	
Campbell, Bryan	2	68.8%	93.8%	100.0%	0.0%	0.80	N/A	
DeCapite, Vanessa	2	37.5%	75.0%	100.0%	0.0%	1.53	N/A	
Hayden, Matthew	10	100.0%	100.0%	100.0%	0.0%	0.46	BLUE	
Kunk, Daniel	10	87.5%	100.0%	100.0%	0.0%	0.55	BLUE	
Pitta, Jimmy	2	37.5%	87.5%	100.0%	0.0%	0.89	N/A	
Rodriguez, Jesus (Jesse)	10	75.0%	95.8%	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	3	20%
Red	6	80%	95%	0.85	0	0%
Blue	6	85%	98%	0.75	5	33%
Yellow	-	-	-	-	7	47%

LIGHT DUTY RATING WORKSHOP (April 3-7, 2017)

Sludge Deposits

Rater	Parts Rated	-1<yi<=1	-2<yi<=2	-3<yi<=3	>3	Yi STD	Group	Group Color
Aguirre, Nancy P	9	66.7%	88.9%	100.0%	0.0%	0.52	YELLOW	
Barrera, Tony	9	55.6%	100.0%	100.0%	0.0%	1.05	YELLOW	
Cumberworth, Lee	9	100.0%	100.0%	100.0%	0.0%	0.66	BLUE	
Dominguez, Lucio	9	44.4%	100.0%	100.0%	0.0%	0.47	YELLOW	
Foecking, Brian	9	88.9%	100.0%	100.0%	0.0%	0.41	BLUE	
Hurst, Kevin R.	9	66.7%	100.0%	100.0%	0.0%	1.01	WHITE	
Kobrinetz, Joaquin J.	9	88.9%	100.0%	100.0%	0.0%	0.62	BLUE	
Lonsway, Chris	9	44.4%	100.0%	100.0%	0.0%	0.57	YELLOW	
Lopez, Frank	9	66.7%	100.0%	100.0%	0.0%	0.53	WHITE	
May, Marianne	9	66.7%	100.0%	100.0%	0.0%	0.41	WHITE	
Sanchez, Arthur	9	77.8%	100.0%	100.0%	0.0%	0.68	WHITE	
Trevino, Robert	9	77.8%	100.0%	100.0%	0.0%	0.53	WHITE	
Bolaney, Jonathan	9	100.0%	100.0%	100.0%	0.0%	0.58	BLUE	
Cales, Jonathon	9	88.9%	100.0%	100.0%	0.0%	0.89	WHITE	
Campbell, Bryan	9	77.8%	100.0%	100.0%	0.0%	0.70	WHITE	
Caproni, David	9	77.8%	100.0%	100.0%	0.0%	0.84	WHITE	
Castillo, George	9	77.8%	100.0%	100.0%	0.0%	0.61	WHITE	
DeCapite, Vanessa	9	88.9%	100.0%	100.0%	0.0%	0.86	WHITE	
Greenland, Paul	9	66.7%	100.0%	100.0%	0.0%	0.85	WHITE	
Hayden, Matthew	9	66.7%	100.0%	100.0%	0.0%	0.95	WHITE	
Kunk, Daniel	9	88.9%	100.0%	100.0%	0.0%	0.70	BLUE	
Langford, Mike	9	55.6%	100.0%	100.0%	0.0%	0.76	YELLOW	
Li, Jie	9	44.4%	100.0%	100.0%	0.0%	1.01	YELLOW	
Rodriguez, Jesus (Jesse)	9	44.4%	88.9%	100.0%	0.0%	1.36	YELLOW	
Veiga, Victor	9	100.0%	100.0%	100.0%	0.0%	0.65	BLUE	
Viera, Ralph B.	9	11.1%	44.4%	100.0%	0.0%	0.98	YELLOW	

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	12	46%
Red	6	80%	95%	0.85	0	0%
Blue	6	85%	98%	0.75	6	23%
Yellow	-	-	-	-	8	31%

Please see the Minutes before drawing any conclusions regarding Sludge performance from the results of this workshop.