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Helping our world work better

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COMMITTEE D02 on PETROLEUM PRODUCTS, LIQUID FUELS, AND LUBRICANTS

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SECOND VICE CHAIRMAN: Michael A Collier, Petroleum Analyzer Co Lp, 21114 Hwy 113, Custer Park, IL 60481, United States (815) 458-0216, Fax: (815) 458-0217, e-mail: michael.collier@pacpl.com

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SECRETARY: Scott Fenwick, National Biodiesel Board, PO Box 104848, Jefferson City, MO 65110-4898, United States (800) 841-5849, Fax: (537) 635-7913, e-mail: sfenwick@biodiesel.org

STAFF MANAGER: Alyson Fick, (610) 832-9710, e-mail: afick@astm.org

Call to Order

ASTM D02.B0.08, the Test Monitoring System Executive Committee, met on Monday, June 25, 2018 at 5:30 p.m. in the JW Marriott Phoenix, AZ. Seven voting members and 16 attendees were present. The attendance list is Attachment A.

Committee Voting Members

Bob Campbell, Present
Jason Anderson, Present
Nathan Seibert, Present
Jim Matasic, Present
Doyle Boese, Present
Mike Alessi, Present
Suzanne Neal, Present
Greg Shank, Not Present

The agenda is shown as Attachment B.

Meeting Minutes

The December 4, 2017 meeting minutes were approved as posted.

Membership

The membership was reviewed. No changes were made.
The current members and their terms are shown on the next page.

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Greg Shank				U	U								
Jason Anderson		U	U	U	U								
Mike Alessi				P	P								
Suzanne Neal			U	U	U	U							
Nathan Seibert					U	U							
Bob Campbell		P	P	P	P								
Jim Matasic					P	P							
Doyle Boese	P	P	P	P	P	P							

 Eligibility; P=Producer, U=User, G=General Interest

Technical Guidance Committee (TGC) Report – Pat Lang

Pat's report is shown as Attachment C. The report included the Rating Task Force (Bob Campbell) and Fuel Task Force (Jim Matasic) reports.

Pat summarized the alternate supplier protocol text that had been forwarded to the HD and PC panels with no negative feedback and recommended the executive committee move to accept.

A motion was made by Bob Campbell and seconded by Frank Farber to accept the alternate supplier protocol and to include it in a TMC document that test methods would reference. The motion passed unanimously. After the meeting it was decided with ASTM input that the preferred approach is to include the wording in each test method's introduction. As test methods are revised the text will be added to the introduction.

A letter from ACC addressing a request to modify the ACC conformance page was reviewed. ACC had reached a consensus to not make any changes to the conformance page. The letter outlined a process for obtaining operational validity opinions when a test did not follow the test method. A lengthy discussion ensued where some attendees felt that test methods could be modified to address operational deviations so that the second question on the conformance page could be checked 'yes'. The discussion ended with no actions or motions.

Bob presented the Rater Task Force report. Significant improvements have been made to the format of the deposit workshops by the task force and have been received favorably by workshop attendees. Currently, there is a work group reviewing Manual 20 for revisions. Frank Farber presented a revision notification/update process for Manual 20 that was accepted (Attachment D).

Jim presented the Fuels Task Force report. PC-10 and PC-9HS fuel specification reviews are nearly complete and will be forwarded to the HD panels for approval. The EEE fuel specification will be reviewed shortly by the task force.

Test Monitoring Center (TMC) Report – Frank Farber

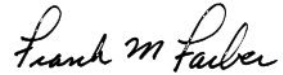
Frank's report is shown as Attachment E. It was reported that the Sequence V fuel contract was completed and work has started on Sequence VI, PC-10 and PC-9HS fuel contracts. Twelve information letters passed Subcommittee B balloting this period. Reference oil shipment requests are continuing to

exceed previous periods. It is anticipated that the replacement for reference oil 1006-2 will be obtained in 2019.

There were no old or new business items.

The meeting ended at approximately 6:30 pm.

Respectfully submitted,

A handwritten signature in black ink that reads "Frank M. Farber". The signature is written in a cursive, flowing style.

Frank M. Farber, Secretary
ASTM Test Monitoring System Executive Committee

Attachments
FMF/fmf


ASTM Test Monitoring System Executive Committee Meeting
June 25, 2018
Phoenix, AZ

Voting Members

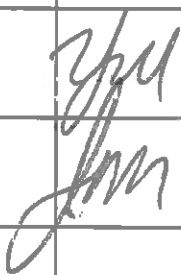
NAME	COMPANY AND ADDRESS	PHONE NUMBER E-MAIL ADDRESS FAX NUMBER	PRESENT
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Jason Anderson	PACCAR	Phone: e-mail: Jason.Andersen@PACCAR.com	JAA
Doyle Boese	Infineum USA, L.P. 1900 East Linden Avenue Linden, NJ 07036-0536	Phone: (908) 474-3176 e-mail: doyle.boese@Infineum.com FAX: (908) 474-3637	DNB
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Jim Matasic	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, OH 44092	Phone: (440) 347-2487 e-mail: James.Matasic@lubrizol.com FAX:	JCM
Suzanne Neal	Daimler/Detroit Diesel Corporation 13400 Outer Drive, West Detroit, MI 48239	Phone: (313) 592-7130 e-mail: Suzanne.neal@daimler.com FAX: (313)592-7104	SNM
Greg Shank	Volvo Powertrain 13302 Pennsylvania Avenue Hagerstown, MD 21742-2693	Phone: (301) 790-5817 e-mail: greg.shank@volvo.com FAX: (301)790-5815	

ASTM Test Monitoring System Executive Committee Meeting
June 25, 2018
Phoenix, AZ

Non-Voting Members

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ASTM Test Monitoring System Executive Committee Meeting
June 25, 2018
Phoenix, AZ

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ASTM Test Monitoring System Executive Committee Meeting
June 25, 2018
Phoenix, AZ

NAME	COMPANY AND ADDRESS	PHONE NUMBER E-MAIL ADDRESS FAX NUMBER	PRESENT
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Jason Bowden	OH Technologies 9300 Progress Parkway P. O. Box 5039 Mentor, OH 44061-5039	Phone: (440) 354-7007 e-mail: jbowden@ohtech.com FAX: (440) 354-7080	
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ASTM Test Monitoring System Executive Committee Meeting
 June 25, 2018
 Phoenix, AZ

Visitors

NAME	COMPANY AND ADDRESS	PHONE NUMBER E-MAIL ADDRESS FAX NUMBER	PRESENT
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Greg Raley	MOTIVA ENTERPRISES	greg.rale@motiva.com	
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John Loop	Lubrizol	john.loop@lubrizol.com	id
Patrick Joyce	Lubrizol	patrick.joyce@lubrizol.com	id

**ASTM Test Monitoring System
Executive Committee Meeting
Monday – June 25, 2018
5:30 - 6:30 PM
Phoenix, AZ
AGENDA**

- 1. Call to Order**
- 2. Approval of Minutes - December 4, 2017**
- 3. Membership**
- 4. Receive, Accept and Take Action on Reports**
 - Technical Guidance Committee – Pat Lang**
 - Test Monitoring Center – Frank Farber**
- 5. New Business**
- 6. Old Business**
- 7. Next Meeting – Monday, December 10, 2018
Atlanta, GA**
- 8. Adjournment**

Technical Guidance Committee Report

Prepared by: Patrick Lang

June 25, 2018

Phoenix, AZ

Summary of Activity this Period

- Alternate Supplier Protocol wording reviewed by PCMO and HD Surveillance Panels and is being recommend for incorporation into test procedures.
- ACC has reviewed the request to consider a modification to the ACC conformance statement for identification of tests with anomalies. The request was declined (detailed response letter provided).
- Rating Task Force provided guidance for the April 2018 Light Duty Workshop.
- Fuels Task Force near completion on finalizing the PC-9HS and the PC-10 fuel specification.

Alternate Supplier Protocol

ASTM International policy is to encourage the development of test procedures based on generic equipment. It is recognized that there are occasions where critical/sole-source equipment has been approved by the technical committee (surveillance panel/task force) and is required by the test procedure. The technical committee that oversees the test procedure is encouraged to clearly identify if the part is considered critical in the test procedure. If a part is deemed to be critical, ASTM encourages alternate suppliers to be given the opportunity for consideration of supplying the critical part/component providing they meet the approval process set forth by the technical committee.

An alternate supplier can start the process by initiating contact with the technical committee (current chairs shown on ASTM TMC website). The supplier should advise on the details of the part that is intended to be supplied. The technical committee will review the request and determine feasibility of an alternate supplier for the requested replacement critical part. In the event that a replacement critical part has been identified and proven equivalent the sole-source supplier footnote shall be removed from the test procedure.

Sent Via Email

Date: May 21, 2018

To: Patrick Lang, ASTM TGC Chair

Cc: Frank Farber, ASTM
Matt Hauschild, ACC PAPTG Chair
Mike Hoey, ACC MAAG Chair

Subject: **ACC Conformance Statement for Engine Test Reports**

Hello Pat,

The American Chemistry Council's (ACC) Product Approval Protocol Task Group (PAPTG), including consultation with PAPTG's Monitoring Agency Advisor Group (MAAG), have discussed your request to review the ACC Conformance Statement regarding the feasibility of changing the ACC conformance statement to more clearly identify tests that have had procedural anomalies but are still deemed valid by engine testing laboratories.

The ACC Petroleum Additives Product Approval Code of Practice ([ACC CoP](#)) describes guidelines and processes related to your inquiry. In particular, please review the following areas within the ACC CoP:

-Appendix A, Practice #8 states:

"If questions arise as to the validity of a specific test or test result, the test laboratory or test sponsor may seek an opinion and/or industry test severity and precision information from the ACC Monitoring Agency (see Appendix E). Such opinions and/or information shall be included in the Candidate Data Package."

-Appendix C, Guideline 8 states:

"Provide impartial expert opinions on operational validity of engine tests when requested by the test laboratory, test sponsor or his designee (Ibid, Item 1); and"

-Tab 5, Item 1 states:

"1. Engine Test Operational Validity Opinions

Function- To provide impartial expert opinions on the operational validity of specific engine tests when requested by the test laboratory or test sponsor.

Requesting ACC Test Operational Validity Opinions- If questions arise as to the operational validity of a specific test, the test sponsor or test laboratory may request a test operational validity opinion from the ACC Monitoring Agency. The request shall be addressed in writing to the Monitoring Agency and must provide all background information pertinent to the assessment of the operational validity of the test as well as the specific concerns of the requester. Any proprietary information contained in the request will be held confidential by the ACC Monitoring Agency. The Monitoring Agency will contact the requester if there are any questions or if further information is needed on the request.

ACC Monitoring Agency Response- The Monitoring Agency must issue either the completed written opinion or an interim written response to the requester within 10 working days of receiving the opinion request. If the Monitoring Agency and the test laboratory agree on the operational validity of a test, that decision is binding. In the event of a disagreement, the requester may seek the opinion of one or more third parties as described in

-Appendix E, Guidelines 5 and 6 states:

“5. Any other statements related to engine test operational validity: Should the test sponsor or test laboratory have questions about test operational validity, either may ask the ACC Monitoring Agency to review the data and render an independent opinion regarding operational validity according to Tab 5, Section 1, Item 1. The test sponsor request and the ACC Monitoring Agency response shall be included in the Candidate Data Package. If the ACC Monitoring Agency and the test laboratory agree on operational validity, the decision is binding. In the event of a disagreement, the test sponsor may seek the opinion of one or more third parties, including their own engineers or outside experts. A composite of these third-party opinions shall be included in the Candidate Data Package, and shall also be reported to the ACC Monitoring Agency in a timely fashion.

6. Engine test result validity opinions: Should the test sponsor believe that results from an engine test are invalid, even though the test has been judged to be operationally valid; the sponsor may exclude the suspect test result from MTEP (Multiple Test Evaluation Procedures) calculations. The test from which the results are discarded as non-representative shall not be counted toward the total number of times the candidate has been tested (see Appendix F). If suspect test results are excluded from MTEP calculations, the following shall be included in the Candidate Data Package:

- a) Results from operationally valid, registered engine tests on oils containing performance additive package(s) representative of the chemistry in the suspect test, which support the conclusion that the suspect results are not representative of the true performance of the oil.
- b) All pertinent information related to any of the following:
 - i. Industry test severity and precision information obtained per Tab 5, Section I, Item 2.
 - ii. External (knowledgeable) opinions / interpretations developed by the test sponsor.
 - iii. ASTM statistical data related to the test in question
- c) A statement summarizing the information supporting the exclusion of the suspect test results from MTEP calculations.”

ACC PAPTG reached consensus that the above guidelines/processes should adequately address your inquiry and therefore have reached consensus to not change the ACC conformance statement. If the TGC has any questions or comments, they should be sent to the [ACC PAPTG Manager](#). Thank you.

Best regards,

Matt Hauschild

Matt Hauschild
ACC PAPTG Chair

Mike Hoey

Mike Hoey
ACC MAAG Chair

Doug Anderson

Doug Anderson
ACC PAPTG Manager



Rater Task Force Update to TGC

6/25/2018

Passion for Solutions®

What we've been doing.....

- 📈 **Conference call 3/13 (Pre-Workshop Discussion)**
- 📈 **Light Duty Workshop week of 4/9**
- 📈 **Conference call 5/2 (Post-Workshop Discussion)**
- 📈 **Webex scheduled 9/5 for pre-HD workshop discussions**

- 📈 **Next workshop (HD), week of 10/22 in San Antonio**

Spring Workshop update

New format continues to work well

- ▲ 2 sessions, first experienced raters, second less so

Improved Trainer visibility employed

- ▲ 5 Trainers worked second half
- ▲ Red shirts
- ▲ First line of defense to help the novice raters
- ▲ Worked very well

Workshop data available quickly after workshop (<10 days)

Suggestion to have Rater involved in opening meetings

- ▲ Afton Rater identified for Fall HD workshop

CEC Manuals 20/21

 **Rater TF tasked with updating and “owning” them**

 **Questions still exist**




- ▲ “D” number?
- ▲ Need to meet Form and Style?

 **Ad-hoc meeting held during spring workshop**

- ▲ Labs had different versions
- ▲ Electronic version acquired and disseminated by TMC

 **December 2018 targeted to have them updated**

Ongoing Actions

-  **Group has an open action item to upgrade the rating booth light requirement (currently outdated T12 fluorescents required)**
 - ▲ Two booths available during Spring Workshop – limited use due to time
-  **Continue to review parts availability and workshop protocols to ensure the industry are properly served**
-  **Ensure more interaction between rating community and surveillance panels**



TGC Fuels Task Force

Update to TGC 06/25/2018

Task Force Actions during 2018

- ▶ Work near complete on PC-10 (ULSD) and PC-9HS fuel specs
 - ▶ Still have two small items left to complete regarding decimal point discrepancies between the two fuel specs
- ▶ Discussions to be scheduled for CAT, Mack, Cummins, and Daimler Surveillance Panels for acceptance of updated fuel specs and procedure updates to remove Fuel Specs and replace with link to TMC fuel spec document. This to be followed with an Information letter.
 - ▶ Scott Parke has drafted an Information letter and a Spec document to be reviewed at our next meeting on 8/2/18
- ▶ Task Force to start work on Haltermann EEE fuel spec next

Other Test Fuel Activities

- Non-Related to TGC Fuels Task Force
 - Seq. VH Test Fuel contract is in place and work on implementing next batch is ongoing.
- Initial discussions around contract with CPCChem on PC-10/PC-9HS fuel has begun.

June 25, 2018 Meeting

- TGC Meeting held prior to the Executive Committee meeting. A verbal update on details of meeting will be given.

Scope and Objectives

The Technical Guidance Committee is a standing committee under the ASTM Test Monitoring System Executive Committee. The TGC shall consist of the chairmen of the surveillance panels of monitored tests, a representative of each of the test developers/sponsor who are responsible for the test procedures and the Director. The Technical Guidance Committee will advise the Director in technical matters concerning test procedures.

This will involve working with the surveillance panels, test developers, critical parts suppliers, fuel suppliers and testing laboratories across all testing types to improve the repeatability and reproducibility of the test procedures. The TGC will provide guidance for future test developments. Additionally, the TGC chairman will liaise with the ACC PAPTG Chair.

Objectives:

- 1) Develop guidelines for issues that are potentially common to all HD/PC engine, gear and bench testing.
- 2) Work with the Rating Committee to provide guidance for issues related to visual deposit ratings.
- 3) Provide guidance on best practices for critical component identification within test procedures.
- 4) Continue to refine the “Guide for Test Development” document as new categories are developed.

ASTM DEPOSIT RATING MANUAL 20

Revision Process



- ▶ Manual 20 is published by ASTM International (ASTM)
 - ▶ Electronically Manual 20 exists as an MS Word document without photos or color chips
 - ▶ ASTM assembles text, photos and color chips so Manual 20 can be produced
 - ▶ Limited supply of hardcopy photos at ASTM – valves & sludge depth
 - ▶ No master photos of valve deposits exists
 - ▶ ASTM contracts out reproduction of color chips as inventory requires

MANUAL 20 STATE



- ▶ Rating Workshop Surveillance Panel (RWSP) has established a task force to revise Manual 20
- ▶ Fallout will be that a revised Word document will be given to ASTM to publish.
- ▶ Moving forward the TMC recommends that a bulletin system be used to modify Manual 20.

MANUAL 20 REVISION



- ▶ Revisions to Manual 20 need to be approved by the RWSP before a draft bulletin is created by the TMC.
- ▶ Once approved by RWSP, a draft pdf bulletin will be forwarded to B01 and B02 surveillance panel chairs by the TMC for review with a two week response period. If chairs request a longer review period accommodations will be made. Chairs are responsible for disseminating information if required to panel. No response will be considered as an approve.
- ▶ A negative vote at any surveillance panel will result in the bulletin being held an additional two weeks until the panel can resolve the negative. After that a majority vote rules at each panel.
- ▶ If a negative vote from any surveillance panel is cast the RWSP will need to resolve the negative before the TMC can issue the bulletin.

PROPOSED BULLETIN SYSTEM



- ▶ Bulletins will contain RWSP chair and TMC director signatures
- ▶ The TMC will issue the bulletin to the RWSP Mailing List. Each November the TMC will forward a revised MS Word document to ASTM for publication as the next version.
 - ▶ New photos or additional rating aids may be part of the revision
- ▶ Manual bulletins will be posted at www.astmtmc.cmu.edu
- ▶ Manual 20 with version control (year of publication and latest bulletin contained) will be available from the www.astm.org

PROPOSED BULLETIN SYSTEM



Test Monitoring Center Report

- ▶ June 25, 2018
- ▶ Phoenix, AZ

2018 Notable Items

- *Sequence V Fuel Contract Signed 5/15/2018*
- *Working with Haltermann and Chevron Phillips on additional fuel contracts*
- *GF-6 IVB BOI/VGRA Matrix Mid 2018*

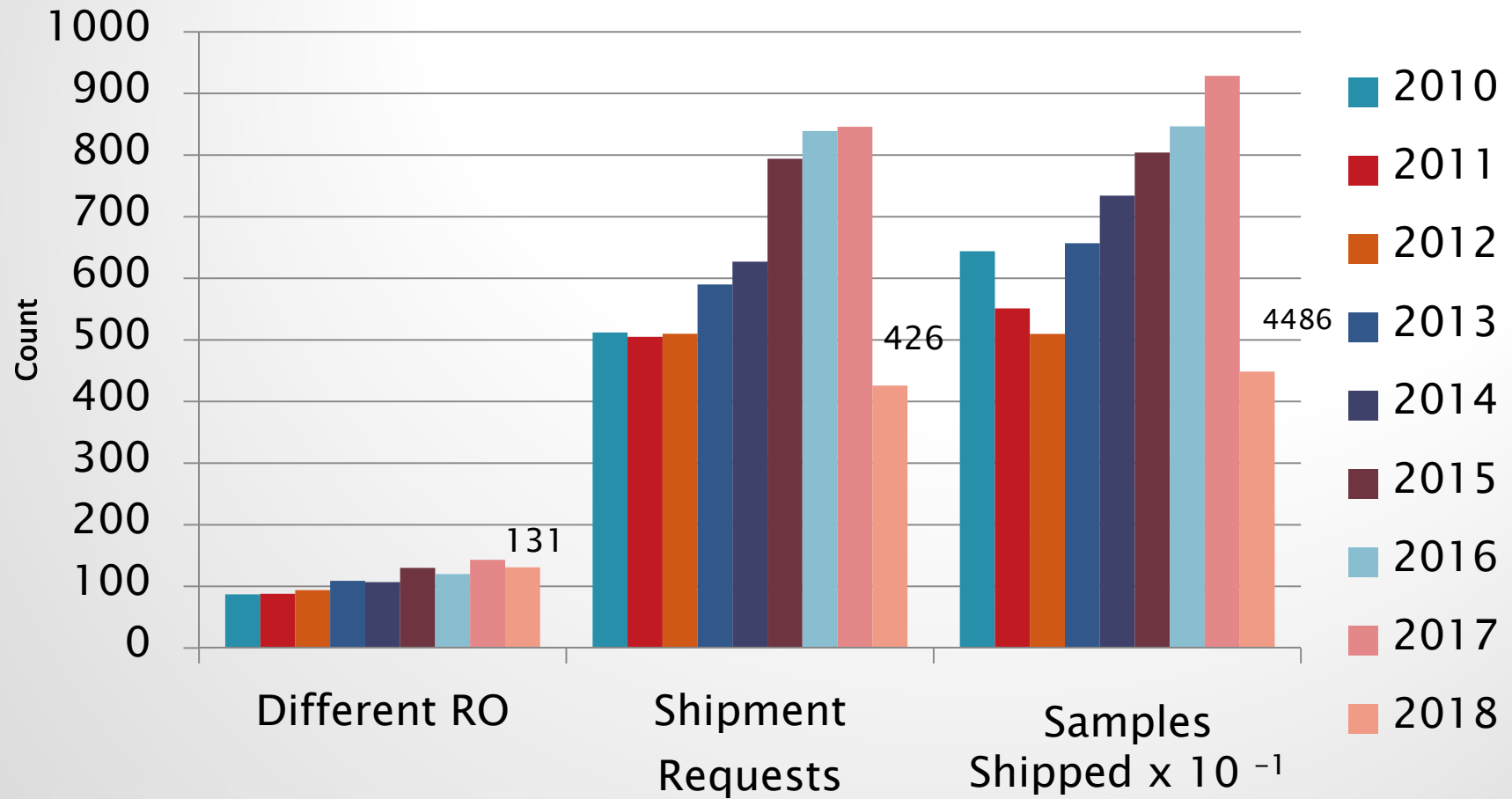
12 Information Letters Passed Sub B Ballot

Test	No.	Issued	Subject
ISB	17-1	20171025	Correction Factors
COAT	17-2	20171031	Procedure Updates
VIE	17-4	20171215	<ol style="list-style-type: none"> 1. Statement Regarding Modifications to the Engine 2. Omission of Section 11.6.5.1 3. Correction to Annex A5.6 4. Revised Annex A17 5. Reuse of Fixed Cam Phasers 6. Editorial Correction to Section 9.4.4
ISB	17-2	20171220	Stand LTMS w/ SA
L-33-1	18-1	20180105	Extension to "Use-by" date for Dana V01.1 hardware
C13	18-1	20180212	2nd Ring and Cylinder Liner Cleaning Procedure Change
IIIH	18-1	20180308	<ol style="list-style-type: none"> 1. Updated PCM Source and Part Number 2. Revisions to Appendix X1
VG	18-1	20180309	Fuel Specification and Analysis Schedule Revision
IIIH	18-2	20180406	Correction to Appendix X2
VIE	18-1	20180410	Industry correction Factors for FEI1 and FEI2
1R	18-1	20180430	Changes to 1R Humidity Probe Location
C13	18-2	20180430	Oil Filter Housing Modifications and Critical Parts Updates

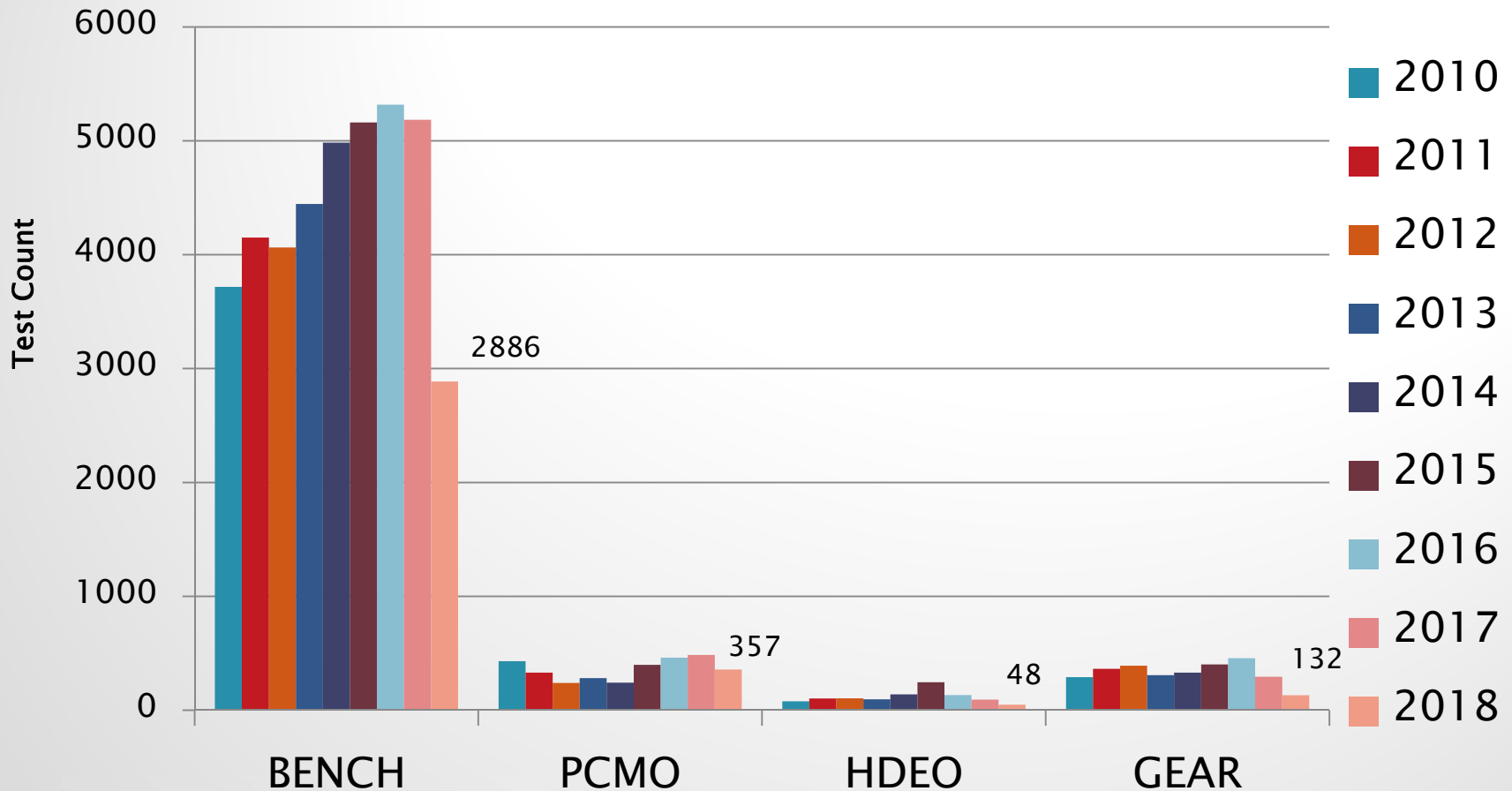
Reference Oil Procurement

Type	Oil Code	Quantity (drums)
CEC Test	RL233-6/7	51
Sequence IX	224	18
COAT	832	36
Sequence V	940	8
GMAER	GMAER02	1
FOAM	FOAMA18 & FOAMB18	4
GF-6 BOI/VGRA	Various	53 Containers

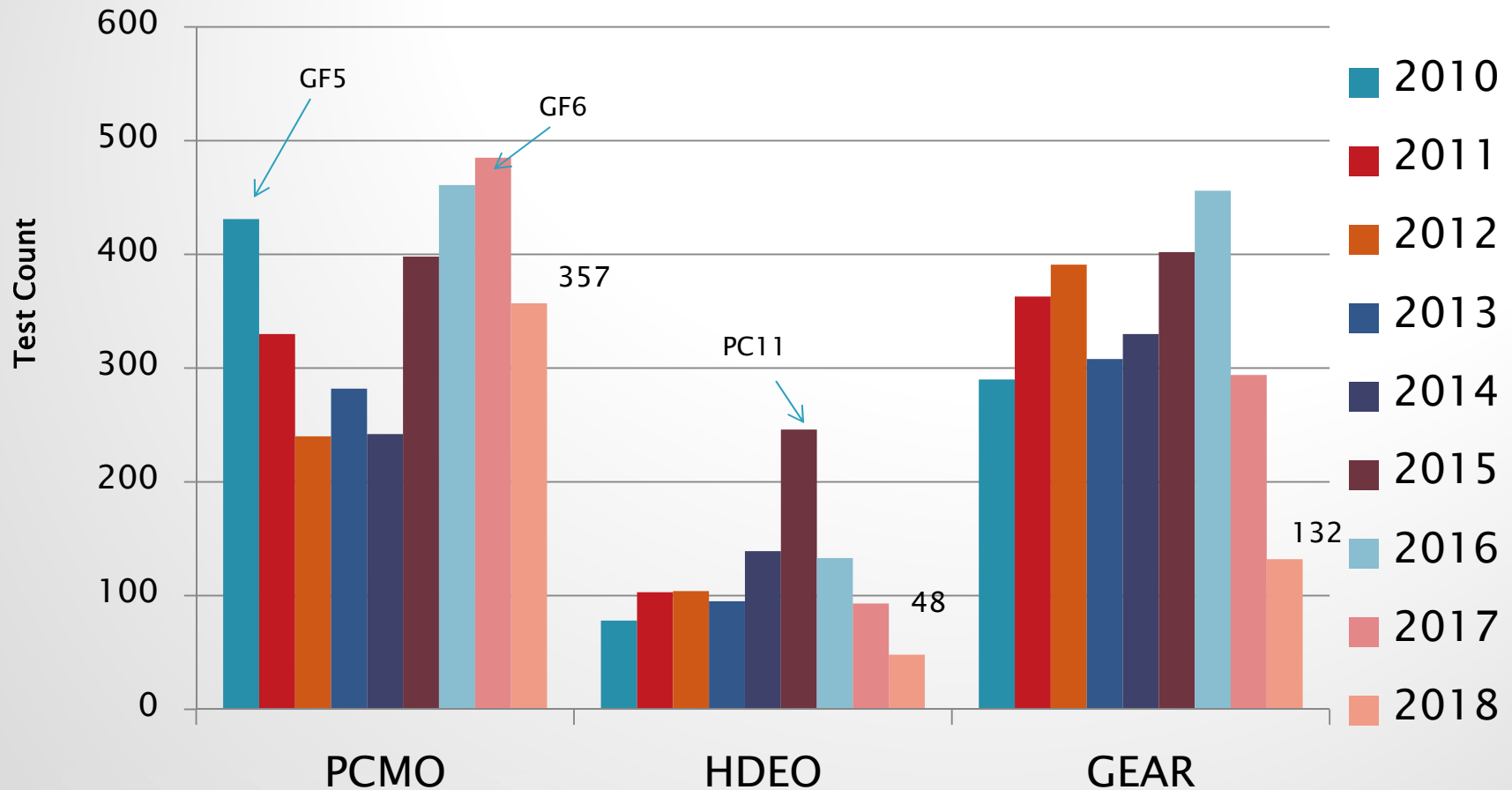
Reference Oil Shipment Overview



Reference Test Activity



Reference Test Activity



1006-2 Status

- ▶ TMC Inventory of 1006-2 is at 1265 gallons
 - It can not be re-blended (Group I basestock not available)
- ▶ 1.0-year usage
 - SF105 188 gallons
 - Specified in ASTM D471 & GM Standards
 - EOEC/LDEOC 287 gallons
 - IVA/VG/VIII 80 gallons
 - Total 555 gallons
- ▶ Estimated Life ~24 months

1006 Replacement Task Force

- ▶ LDEOEC and HDEOEC scoping of RO 1006 clones – Completed
- ▶ Best clone selected
- ▶ Blend two drums for more extensive evaluation – Completed
- ▶ Pilot @ TMC 28 gallons
- ▶ OEMs & Elastomer Manufactures are on board with proposed re-blend