



ASTM INTERNATIONAL
Helping our world work better

100 Barr Harbor Drive
PO Box C700
West Conshohocken, PA
19428-2959 USA

tel +1.610.832.9500
fax +1.610.832.9666
www.astm.org

COMMITTEE D02 on PETROLEUM PRODUCTS, LIQUID FUELS, AND LUBRICANTS

CHAIRMAN: Randy F Jennings, Tennessee Dept Of Agric, P O Box 40627, Nashville, TN 37204, United States (615) 837-5150, Fax: (615) 837-5327, e-mail: randy.jennings@tn.gov

FIRST VICE CHAIRMAN: James J Simnick, Bp America, 150 Warrenville Rd, Naperville, IL 60563, United States (630) 420-5936, Fax: (630) 420-4831, e-mail: simnicjj@bp.com

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

SECOND SECRETARY: Hind M Abi-Akar, Caterpillar Inc, Building H2000, Old Galena Road, Mossville, IL 61552, United States (309) 578-9553, e-mail: abi-akar_hind@cat.com

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, December 10, 2018 at 5:30 p.m. in the Atlanta, GA. Four voting members and 16 attendees were present. The attendance list is Attachment A.

Committee Voting Members

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

The agenda is shown as Attachment B.

Meeting Minutes

The June 25, 2018 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.

- ▶ Inclusion of Alternate Supplier Protocol wording approved in June is moving forward with test method updates
- ▶ Objectives for the upcoming period are:
 - Update out of control test document
 - Update DACA II document
 - Develop generic wording to handle test anomalies
- ▶ Improvements made to the Rater Workshop held in October were well received by the rating community
 - Two session format w/ target generation phase
 - Red Shirt Trainers

Work was completed on revising ASTM Rating Manual 20. The revision will be forward to ASTM for publication

- ▶ Conversion to LED lights
 - LED light specs have been provided to all labs
 - Labs will dual rate in-house parts and provide data to TMC
 - Analysis of data to follow to determine direction forward
- ▶ Increase interaction between Surveillance Panels and Raters/Rating Workshop so concerns can be addressed

- ▶ TGC Fuel Task Force Chairman Change
 - Jim Matasic → Mike Lochte
 - PC9HS & PC10 fuel spec review completed
 - Conference calls to continue to work through remaining fuel spec reviews.
- ▶ Fuels specs are relocated to TMC website

Test Monitoring Center (TMC) Report – Frank Farber

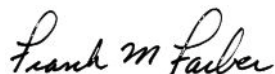
Frank's report is shown as Attachment E.

- ▶ 9 information letters were distributed this period and passed Sub B balloting
- ▶ Bench and PCMO reference activity is keeping pace with last year
- ▶ HDEO and Gear reference activity is down compared to last year
- ▶ Sequence VIE, PC9HS & PC10 Fuel Contracts are progressing
- ▶ Oil distribution for Sequence IVB BOI/VGRA is completed
- ▶ The replacement oil for RO1006 will be procured Q1 2019

There were no old or new business items.

The meeting ended at approximately 5:55 pm.

Respectfully submitted,



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

Attachments
FMF/fmf

**ASTM Test Monitoring System Executive Committee Meeting
December 10, 2018
Atlanta, GA**

Voting Members

NAME	COMPANY AND ADDRESS	PHONE NUMBER E-MAIL ADDRESS FAX NUMBER	PRESENT
Bob Campbell Chairman	Afton Chemical Corporation 500 Spring Street P.O. Box 2158 Richmond, VA 23218-2158	Phone: (804) 788-5236 e-mail: bob.campbell@aftonchemical.com FAX: (804) 788-5340	
Mike Alessi	ExxonMobil Paulsboro Technology Center 600 Billingsport Road Paulsboro, NJ 08066-0480	Phone: (856) 224-2309 e-mail: michael.i.alessi@exxonmobil.com FAX: (856) 224-	
Jason Anderson	PACCAR	Phone: e-mail: Jason.Andersen@PACCAR.com	
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	
Nathan Seibert	General Motors Global Propulsion Systems 800 N Glenwood Ave Pontiac, MI 48340	Phone: 248-343-7274 e-mail: nathan.siebert@gm.com FAX:	
Jim Matasic	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, OH 44092	Phone: (440) 347-2487 e-mail: James.Matasic@lubrizol.com FAX:	
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	
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
December 10, 2018
Atlanta, GA

Attachment A
Page 2 of 5

Non-Voting Members

NAME	COMPANY AND ADDRESS	PHONE NUMBER E-MAIL ADDRESS FAX NUMBER	PRESENT
Don Bell OSCT Chairman	Afton Chemical Corporation 500 Spring Street PO Box 2158 Richmond, VA 23218-2158	Phone: (804) 788-6332 e-mail: don.bell@aftonchemical.com FAX: (804) 788-6243	
Mike Birke LDEOC/EOEC Chairman	Southwest Research Institute 6620 Culebra Road San Antonio, TX 78228-0510	Phone: (210) 522-5310 e-mail: mbirke@swri.org FAX: (210) 522-5907	
William Buscher, III Sequence IVA, IVB & B01 Chairman	Intertek 5404 Bandera Road San Antonio, TX 78238	Phone: (210) 240-8099 e-mail: william.buscher@intertek.com FAX: (210) 684-7523	WAB
Tim Brooke ASTM International	ASTM 100 Barr Harbor Drive West Conshohocken, PA 19428	Phone: (610) 832-9729 e-mail: tbrooke@astm.org FAX: (610) 832-	
Mike Faile TEOST, TEOST- MHT Chairperson	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, OH 44092-2298	Phone: (440) 347- e-mail: FAX: (440) 347-8061	
Mark Cooper T-8/T-8E, T-11, T-12, T-13 Chairman	Chevron Oronite Company, LLC 4502 Centerview Drive, Suite 210 San Antonio, TX 78228	Phone: (210) 731-5606 e-mail: mawc@chevrontexaco.com FAX: (210) 731-5699	
Mark Devlin Gelation Index Chairman	Afton Chemical Corporation 500 Spring Street, P.O. Box 2158 Richmond, VA 23218-2158	Phone: (804) 788-6322 e-mail: mark.devlin@aftonchemical.com FAX: (804) 788-6388	
Frank Farber TMC Director	ASTM Test Monitoring Center 6555 Penn Avenue Pittsburgh, PA 15206-4489	Phone: (412) 365-1030 e-mail: fmf@astmtmc.cmu.edu FAX: (412) 365-1030	Ful
Joe Franklin Subcommittee B Chairman	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238-1933	Phone: (210) 523-4671 e-mail: joe.franklin@intertek.com FAX: (210) 681-8300	JF
Pat Lang Sequence VIII TGC Chairman	Southwest Research Institute 6220 Culebra Road San Antonio, TX 78228-0510	Phone: (210) 522-2820 e-mail: plang@swri.org FAX: (210) 684-7523	
Robert Stockwell Sequence IIIF/IIIG/IIIH Chairman	Chevron Oronite 4502 Centerview Drive Suite 210 San Antonio, TX 78228	Phone: (210) 232-3188 e-mail: robert.stockwell@chevron.com FAX:	RS
John Glaser Intertek	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238-1933	Phone: (210) 647-9459 e-mail: john.glaser@intertek.com FAX: (210) 684-6074	

ASTM Test Monitoring System Executive Committee Meeting
December 10, 2018
Atlanta, GA

NAME	COMPANY AND ADDRESS	PHONE NUMBER E-MAIL ADDRESS FAX NUMBER	PRESENT
Brad Bubonic L-60-1 Chairman	The Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092-2298	Phone: (440) 347- e-mail: brad.bubonic@lubrizol.com FAX: (440) 347-4096	
Ryan Johnson EOAT	Southwest Research Institute 6220 Culebra Road San Antonio, TX 78228-0510	Phone: (210) 522-2892 e-mail: ryan.johnson@swri.org FAX: (210) 684-7530	
Brian Koehler HTCT Chairman	Southwest Research Institute 6220 Culebra Road San Antonio, TX 78228-0510	Phone: (210) 522-3588 e-mail: bkoehler@swri.edu FAX: (210) 680-1777	
Andrew Stevens Sequence VI	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, OH 44092-2298	Phone: (440) 347- e-mail: andrew.stevens@lubrizol.com FAX: (440) 347-	
Stefan Von Lukawiecki D5800, D6417 Chairman	Safety-Kleen Canada, Inc. 300 Woolwich Street South Breslau, Ontario NOB 1M0 CANADA	Phone: (519) 648-2291 e-mail: svonluka@safety-kleen.com FAX: (519) 648-2033	
Yong-Li McFarland EOFT, EOWT Chairperson	Southwest Research Institute 6220 Culebra Road San Antonio, TX 78238-0510	Phone: (210) 522-2715 e-mail: yongli.mcfarland@swri.org FAX: (210) 522-5791	<i>YLM</i>
Jim Moritz ISB & ISM Chairman	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238-1933	Phone: (210) 523-4601 e-mail: jim.moritz@intertek.com FAX: (210) 523-4607	<i>JM</i>
Leonard Orzech BRT Chairman	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238-1933	Phone: (210) 523-4680 e-mail: leonard.orzech@intertek.com FAX: (210) 523-4694	
Wes Venhoff L-37, B03 Chairman	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, OH 44092-2298	Phone: (440) 347- e-mail: Wes.Venhoff@Lubrizol.com FAX: (440) 347-	
Gil Reinhard CBT, HTCBT Chairman	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238-1933	Phone: (210) 523-4674 e-mail: gil.reinhard@intertek.com FAX: (210) 681-8300	
Andrew Ritchie Sequence V Chairman	Infineum USA, L.P. 1900 East Linden Avenue Linden, NJ 07036-0536	Phone: (908) 474-2097 e-mail: andrew.ritchie@infineum.com FAX: (908) 474-3637	<i>AR</i>
Al Lopez Sequence X Chairman	Intertek Automotive Research 5404 Bandera Road San Antonio, TX 78238-1933	Phone: (210) 523-4601 e-mail: al.lopez@intertek.com FAX: (210) 523-4607	
Justin Mills ROBO Chairman	Evonik	Phone: e-mail: @evonik.com FAX:	

ASTM Test Monitoring System Executive Committee Meeting
December 10, 2018
Atlanta, GA

NAME	COMPANY AND ADDRESS	PHONE NUMBER E-MAIL ADDRESS FAX NUMBER	PRESENT
Angela Trader L-33-1 Chairperson	Intertek Automotive 5404 Bandera Road San Antonio, TX 78238-1993	Phone: (210) 264-5911 e-mail: angela.trader@intertek.com FAX: (210)	
Jim Gutzwiller Scote/C13 Chairman	Infineum USA, L.P. 4335 West Piedras Drive, Sulte101 San Antonio, TX 78228	Phone: (210) 732-8132 x13 e-mail: james.gutzwiller@infineum.com FAX: (210) 732-8480	
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	
Eric Donovan L-42 Chairman	Afton Chemical Corporation 500 Spring Street P.O. Box 2158 Richmond, VA 23218-2158	Phone: (804) 788- e-mail: eric.donovan@aftonchemical.com FAX: (804) 788-6358	
Khaled Rals Sequence IX Chairman	Southwest Research Institute 6220 Culebra Road San Antonio, TX 78238-0510	Phone: (210) 522- e-mail: FAX: (210) 522-	

ASTM Test Monitoring System Executive Committee Meeting
 December 10, 2018
 Atlanta, GA

Visitors

NAME	COMPANY AND ADDRESS	PHONE NUMBER E-MAIL ADDRESS FAX NUMBER	PRESENT
Steve Marty	SWRI	210 522-5929 smarty@swri.org	X
Michael Hochak	SWRI	210 522-5430 m.hochak@swri.org	X
Sid Clark	SWRI	586-873-1255 Sidney.Clark@swri.org	X
Pat Lang	SWRI	patrick.lang@swri.org	X
Tim Brodie	ASTM	tbrodie@astm.org	X
Jason Andersen	PACCAR	jason.andersen@paccar.com	X
Matthew Bowden	OH TECHNOLOGIES	MJBowden@OHTECH.com	X
Ron Romano	FORD	rromano@ford.com	X
Mike Deegan	FORD	m.deegan@ford.com	X

**ASTM Test Monitoring System
Executive Committee Meeting
Monday – December 10, 2018
5:30 - 6:30 PM
Atlanta, GA
AGENDA**

- 1. Call to Order**
- 2. Approval of Minutes - June 25, 2018**
- 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, June 24, 2019
Denver, CO**
- 8. Adjournment**

Technical Guidance Committee Report

Prepared by: Patrick Lang

December 10, 2018

Atlanta, GA

Summary of Activity this Period

- Alternate Supplier Protocol wording was approved at the June 25, 2018 Executive Committee Meeting. Wording is already being worked into the GF-6 test procedures that are currently being reviewed.
- After careful review, ACC declined the request to consider a modification to the ACC conformance statement for identification of tests with anomalies. The TGC now has an action item to work towards creating generic wording for handling anomalies.
- Rating Task Force provided guidance for the October 2018 Heavy Duty Workshop.
- Fuels Task Force now reviewing the gasoline specifications.



| Rater Task Force Update to TGC

12/10/2018

Passion for Solutions®

What we've been doing.....

- 📌 **Conference call 9/5 (Pre-Workshop Discussion)**
- 📌 **Heavy Duty Workshop week of 10/22**
- 📌 **Conference call 11/29 (Post-Workshop Discussion)**
- 📌 **Webex to be scheduled in April for pre 2019 LD workshop**

- 📌 **Next workshop (LD), week of May 6, 2019 in San Antonio**

Fall Workshop update

New format continues to work well

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

Improved Trainer visibility works well

- ▲ 6 Trainers worked second half
- ▲ Red shirts
- ▲ First line of defense to help the novice raters

Workshop data available quickly after workshop (~10 days)

Experienced Rater (rather than TMC) led opening discussion for session 2

CEC Manuals 20/21

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

 **Will not be “D” number**

- ▲ ASTM Rating Manual 20
 - Information Letter system employed for updates

 **Manual review completed**

- ▲ Updated to reflect intent and current practice, and passed to ASTM
- ▲ Stay tuned, status update should be available June 2019 ASTM

Ongoing Actions

Conversion to LED lights

- ▲ LED light specs will be supplied to all labs by year end (Afton)
 - done
- ▲ Labs will rate some inhouse parts in duplicate (fluorescent and LED) and provide date to TMC for blind coding.
- ▲ Once adequate data exists, the subsequent analysis will direct our path forward.

Continue to review parts availability and workshop protocols to ensure the industry are properly served

Ensure more interaction between rating community and surveillance panels

- ▲ Panel Chairs, please have discussions within your respective panels regarding rating, and raise any particular concerns to our group so they may be addressed either through the workshop or discussions.

AftonChemical.com



Workshop Participation Criteria

▲ **Workshops are for calibrating and light training, but basic understanding of deposits and hardware is a pre-requisite**

▲ **How to ensure this?**

- ▲ Potential training workshop held week prior to HD workshop in San Antonio
 - Details are important as it will tax labs and participating trainers
- ▲ Will poll industry (globally) to verify interest
 - GB D1-2019 labs for example



TGC Fuels Task Force

Update to TGC 12/10/2018



Task Force Actions during 3/4Q 2018

- Work complete on PC-10 (ULSD) and PC-9HS fuel specs
 - [Http://www.astmtmc.cmu.edu/ftp/docs/fuel/tmc-monitored%20test%20fuel%20specifications.pdf](http://www.astmtmc.cmu.edu/ftp/docs/fuel/tmc-monitored%20test%20fuel%20specifications.pdf)
- Task Force near complete on Haltermann EEE and Green Fuel specs
- Task Force has started to discuss Batch Definition and Monitoring Plans



Other Test Fuel Activities

- Non-Related to TGC Fuels Task Force
 - Seq. VIE Test Fuel contract is in process
- Initial discussions around contract with CPChem on PC-10/PC-9HS fuel has begun.
- New Task Force Chairman

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.

Test Monitoring Center Report

- ▶ December 10, 2018
 - ▶ Atlanta, GA

2018 Notable Items

Attachment D
Page 2 of 9

- *Working with Labs, Haltermann and Chevron Phillips on additional fuel contracts*
- *Continue to support GF-6 BOI/VGRA Matrix Work*

Test Monitoring Center
<http://astmcmc.cmu.edu>



9 Information Letters Passed Sub B Ballot

Attachment D
Page 3 of 9

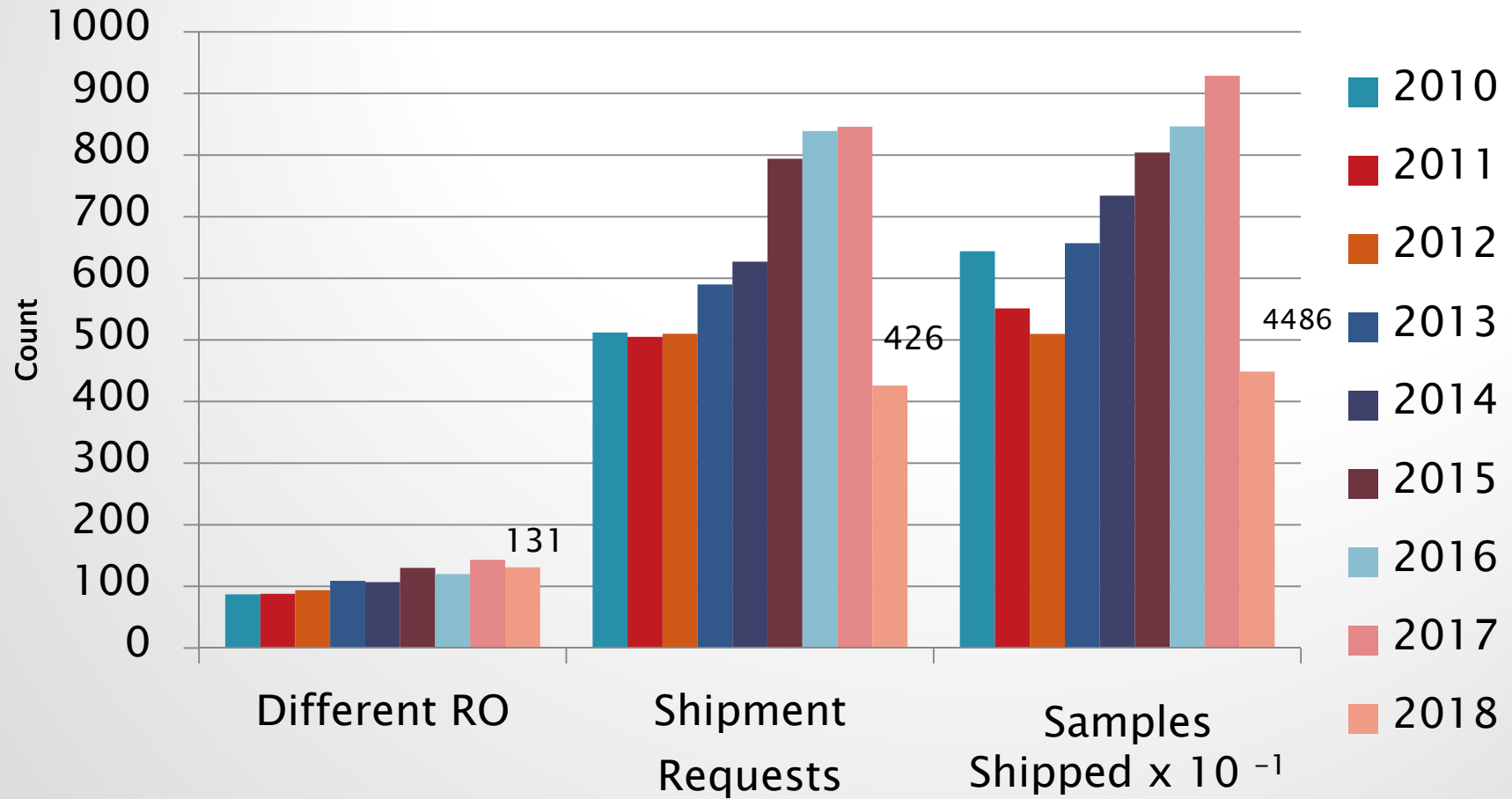
Test No.	Issued	Subject
1K1N 18-1	20171025	Correction to 1K/1N Liner Requirements
T-13 18-1	20171031	T-13 Humidity Control
VIE 18-2	20171215	1. Additional Piston Valve Actuator 2. Addition of Component Source Footnotes
IIIH 18-3		1. Alternative Engine Coolant System Configuration 2. Updated Table 1 3. Table 3 Updates 4. Addition of Dyno Supplier to X3.
L-33-1 18-2	20171220	1. Editorial changes made to Sections 6.2.6 & 6.2.7
	20180105	2. Editorial changes made to Section 14.1.3 & Table 2
VIE 18-3	20180212	Editorial Corrections to Formulas in Annexes A15 and A16
L-33-1 18-3	20180308	Removal of section A6.2.3 from the procedure
HTCT 18-1		New Stand and Lab Definitions
IIIH 18-4	20180309	1. Updated Table 2 2. Reference to DACA II Document in QI Calculations 3. Clarifications to Section X2.4.3.1

Reference Oil Procurement

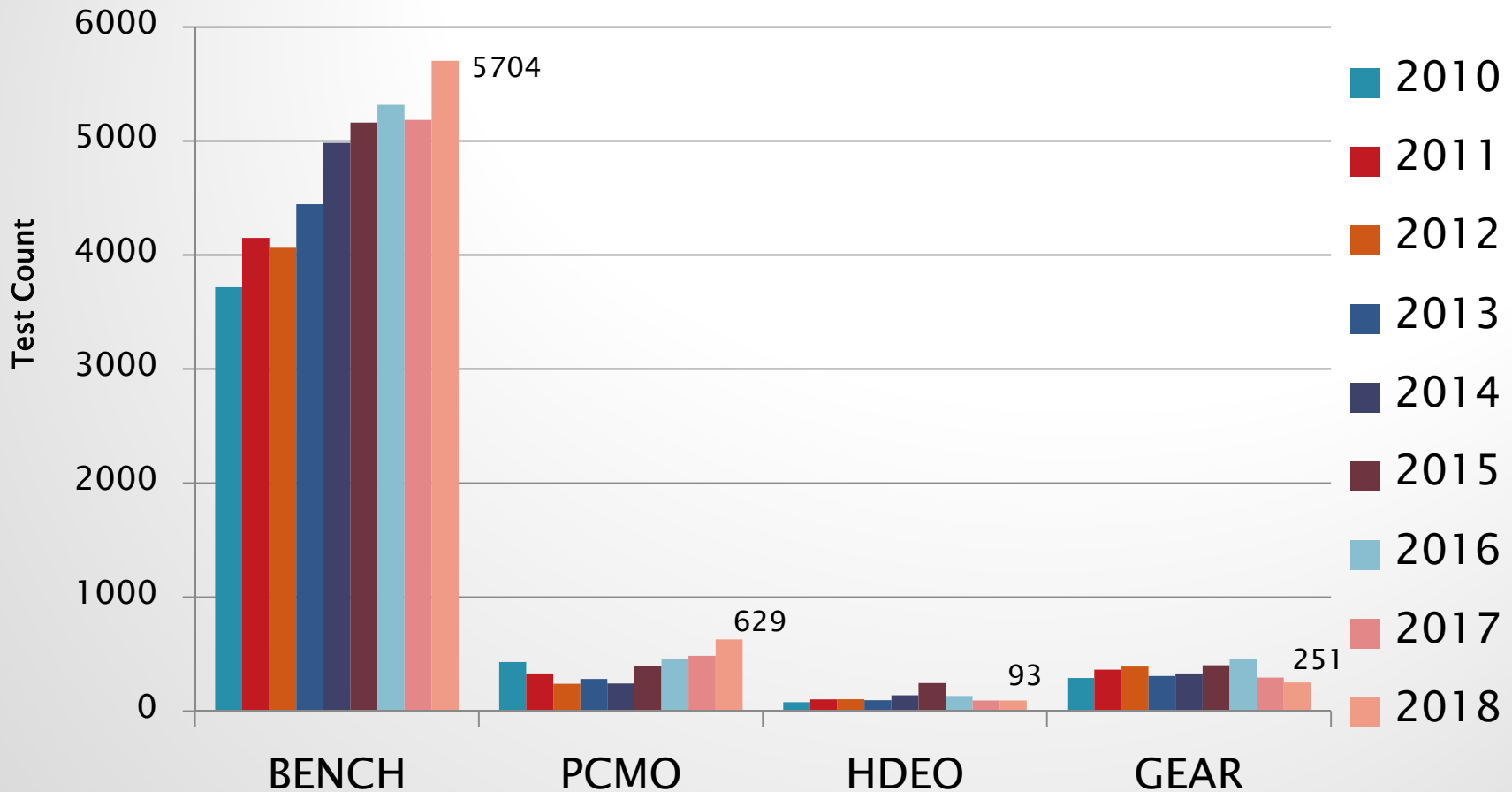
Attachment D
Page 4 of 9

Type	Oil Code	Quantity (drums)
CEC Test	RL269, RL270	14, 11
Diesel Fuel Lubricity	DFA19, DFB19	4
D5800	VOLD18	21
GMAER	GMAERBL-5	10
L-42	119	1
GF-6 BOI/VGRA	Various	13 Containers

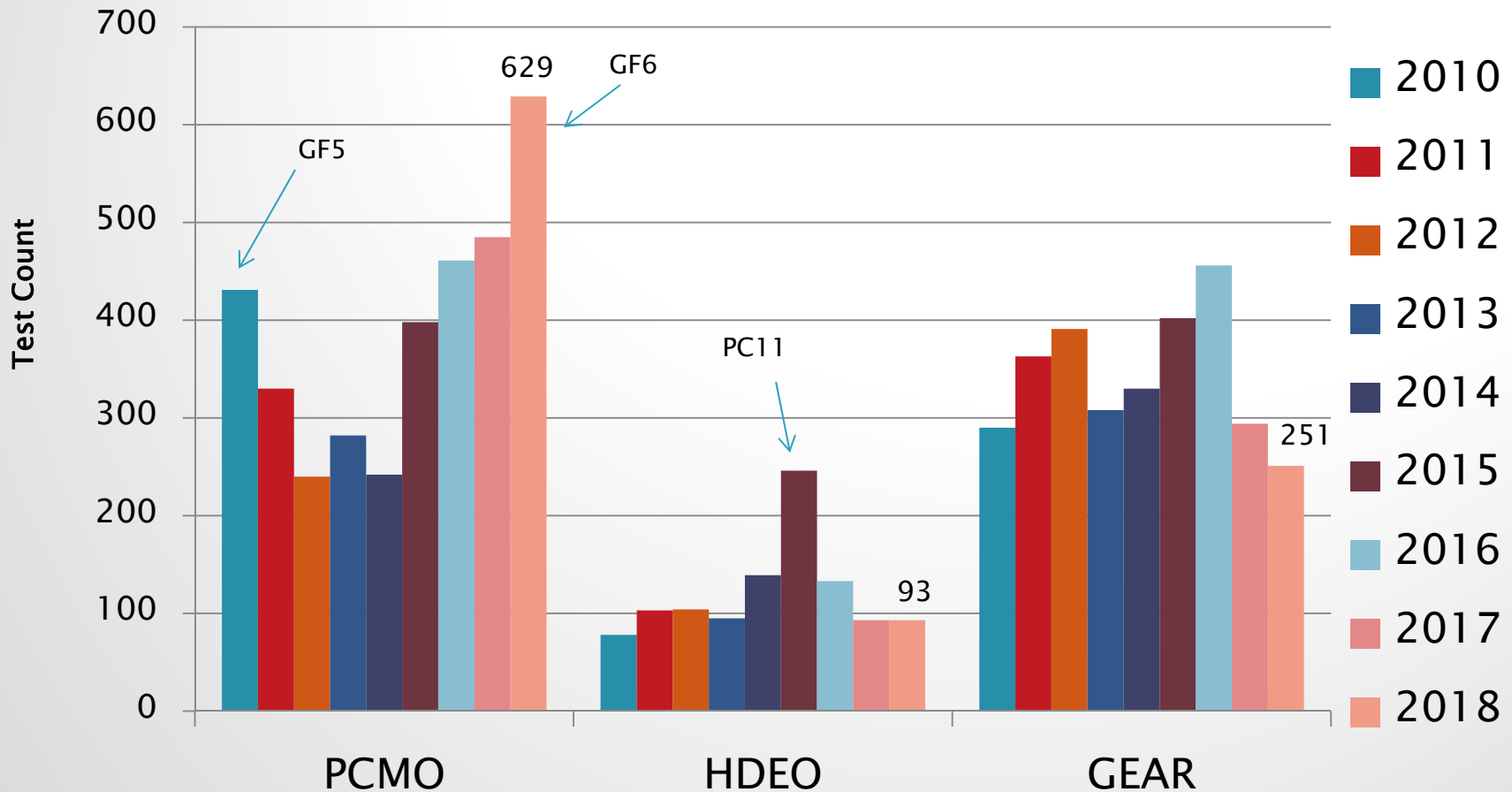
Reference Oil Shipment Overview



Reference Test Activity



Reference Test Activity



1006-2 Status

- ▶ TMC Inventory of 1006-2 is at 880 gallons
 - It can not be re-blended (Group I basestock not available)
- ▶ 1.0-year usage
 - SF105 213 gallons
 - Specified in ASTM D471 & GM Standards
 - EOEC/LDEOC 254 gallons
 - IVA/VG/VIII 68 gallons
 - Total 535 gallons
- ▶ Estimated Life ~18 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
- ▶ Replacement oil slated to be procured 1st quarter of 2019