



**Address** 100 Barr Harbor Drive  
PO Box C700  
W. Conshohocken, PA  
19428-2959 | USA

**Phone** 610.832.9500  
**Fax** 610.832.9666  
**Web** [www.astm.org](http://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) 837-5327, FAX: (615) 837-5335, E-MAIL: [RANDY.JENNINGS@TN.GOV](mailto:RANDY.JENNINGS@TN.GOV)  
**FIRST VICE CHAIRMAN:** JAMES J SIMNICK, BP AMERICA, 150 W WARRENVILLE RD, NAPERVILLE, IL 60563, UNITED STATES (630) 420-5936, FAX: (630) 420-4831, E-MAIL: [SIMNICJ@BP.COM](mailto:SIMNICJ@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@PACLP.COM](mailto:MICHAEL.COLLIER@PACLP.COM)  
**SECOND SECRETARY:** HIND M ABI-AKAR, CATERPILLAR INC, BLDG H3000, OLD GALENA ROAD, MOSSVILLE, IL 61552, UNITED STATES (309) 578-9553, E-MAIL: [ABI-AKAR\\_HIND@CAT.COM](mailto: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](mailto:SFENWICK@BIODIESEL.ORG)  
**STAFF MANAGER:** ALYSON FICK, (610) 832-9681, FAX: (610) 832-9668, E-MAIL: [AFICK@ASTM.ORG](mailto:AFICK@ASTM.ORG)

Issued: November 25, 2015  
Reply to: Dan Worcester  
Southwest Research Institute  
6220 Culebra Rd.  
San Antonio, TX 78238  
Phone: 210.522.2405  
Email: [dworcester@swri.org](mailto:dworcester@swri.org)

These are the unapproved minutes of the 11.24.2015 Sequence VI Surveillance Panel call.

This document is not an ASTM standard; it is under consideration within an ASTM technical committee but has not received all approvals required to become an ASTM standard. It shall not be reproduced or circulated or quoted, in whole or in part, outside of ASTM committee activities except with the approval of the chairman of the committee having jurisdiction and the president of the society. Copyright ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

The meeting was called to order at 8:00 AM Central Time by Chairman Nathan Moles.

### Agenda

The Agenda is the included as **Attachment 1**.

#### 1.0 Roll Call

The Attendance list is **Attachment 2**.

## 2.0 Approval of minutes

- 2.1 Approval of the minutes of the 11.10.2015 meeting.

<ftp://ftp.astmtmc.cmu.edu/docs/gas/sequencevi/minutes/VIMinutes20151110ConferenceCall.pdf>

MOTION: Approve the minutes from the 11.10.2015 face to face meeting

[Nathan Moles, Jason Bowden, second] Approved unanimous.

## 3.0 Action Item Review

- 3.1 OHT to provide update on current VIE inventory and service engine order. –OHT  
There are 43 of the -1 engine remaining. The cam gears have been received and the 144 engines are being prepared for storage. OHT does have one VID engine remaining and will hold that for needs later in that test type.
- 3.2 Labs reported VID engine inventory and expected depletion date of VID engines.  
*-Expected life of engines range from 2016 Q1 to 2018*  
*Lab1: 1 engines*  
*Lab2: 1 engines*  
*Lab3: 3 engines*  
*Lab4: 1 engines* No change in engine count.

## 4.0 Old Business

- 4.1 List of items to be reviewed after the Precision Matrix  
Do we really need to run three RO tests to establish the new engine for LTMS?  
Discussion of reducing the new reference requirement to two oils, then a third oil run after a defined number of candidates.  
Discussion of using FEI 2 and FEI Sum for references to match candidate pass/fail criteria.  
Discussion of evaluating 80/20 ratio of BL before to after for FEI 1 and 10/90 for FEI 2.  
Should the acceptance bands value of 1.96 be rounded up? Due to the rounding on FEI 1 and 2 the actual pass limit is 1.91 and 1.92.  
-SP chair and test sponsor to investigate what is needed to establish VID equivalent limits for VIE  
-Discussion of changing BLB1 to BLB2 delta acceptable limits  
*This will be an on-going effort.*
- 4.2 Discussion on start of precision matrix.  
*Tests are being reported for the Precision Matrix. See Attachment 3. SwRI is running the first test on the first stand. Afton, ExxonMobil, and IAR have reported their first test results and have second tests running or starting this week. Ashland will start 11.30.2015. As a reminder, these tests should be reported with no engine hour or severity adjustments applied to the results.*

- 4.3 Update from task force, to investigate alternative test procedure Sequence “VIF” that would improve 0W-16. – Dan Worcester/Satoshi Hirano SwRI has reported the first run on oil 543. Their second test is running on 542-2. IAR will start their first test after stand shakedown is completed.
- 4.4 Update from task force to investigate option to prolong usable life of the available VIE engines. –Adrian Alfonso/Bill Buscher A survey was sent to get the quantity of engines each labs needs. Not all responses have been received. That needs to be finalized. There will be a meeting next Thursday to answer any questions on this issue.

## **5.0 New Business**

- 5.1 Chairman will be unavailable 12/23/2015-1/19/2016 Jerry Brys will be filling in.

## **6.0 Next Meeting.**

The next meeting will be 12.02.2015 conference call.

The meeting adjourned at 8:27 AM.

# Sequence VI Surveillance Panel Conference Call Agenda November 24 @ 9:00-10:00AM EST

## Call-in information is included below:

Call-in Number: 866-528-2256  
Conference Code: 3744024

### 1.0) Roll Call

*Do we have any membership changes or additions?*

### 2.0) Approval of minutes

2.1 Approve the minutes from the November 10, 2015 Sequence VI Surveillance Panel.

<ftp://ftp.astmtmc.cmu.edu/docs/gas/sequencevi/minutes/VIMinutes20151110ConferenceCall.pdf>

### 3.0) Action Item Review

3.1 OHT to provide update on current VIE inventory and service engine order. –OHT

3.2 Update of VID engine inventory and expected depletion date of VID engines.

*-Expected life of engines range from 2016 Q1*

*Lab1: 1 engines*

*Lab2: 1 engines*

*Lab3: 3 engines*

*Lab4: 1 engines*

### 4.) Old Business

4.1 List of items to be reviewed after the Precision Matrix

-Do we really need to run three RO tests to establish the new engine for LTMS?

-Discussion of reducing the new reference requirement to two oils, then a third oil run after a defined number of candidates.

-Discussion of using FEI 2 and FEI Sum for references to match candidate pass/fail criteria.

- Discussion of evaluating 80/20 ratio of BL before to after for FEI 1 and 10/90 for FEI 2.
- Should the acceptance bands value of 1.96 be rounded up? Due to the rounding on FEI 1 and 2 the actual pass limit is 1.91 and 1.92.
- SP chair and test sponsor to investigate what is needed to establish VID equivalent limits for VIE
- Discussion of changing BLB1 to BLB2 delta acceptable limits

4.2 Discussion on precision matrix. –Rich Grundza/Labs

4.3 Update from task force, to investigate alternative test procedure Sequence “VIF” that would improve 0W-16. – Dan Worcester/Satoshi Hirano

4.4 Update from task force to investigate option to use short blocks to supplement engine inventory. –Adrian Alfonso/Bill Buscher

## **5.) New Business**

5.1 Chairman will be unavailable 12/23/2015-1/19/2016 Jerry Brys will be filling in.

## **6.) Next Meeting**

Next Tuesday (reoccurring weekly meeting)

## **7.) Meeting Adjourned**

**ASTM SEQUENCE VI**

Name	Address	Phone/Fax/Email	Attendance
Adrian Alfonso Voting Member	Intertek Automotive Research	Phone: (210) 838-0431 <a href="mailto:adrian.alfonso@intertek.com">adrian.alfonso@intertek.com</a>	ATTEND
Jason Bowden Voting Member	OH Technologies	Phone: (440) 354-7007 <a href="mailto:jhbowden@ohtech.com">jhbowden@ohtech.com</a>	ATTEND
Timothy Caudill Voting Member	Ashland	Phone: (606) 329-5708 <a href="mailto:Tlcaudill@ashland.com">Tlcaudill@ashland.com</a>	ATTEND
Tim Cushing Voting Member	General Motors	Phone: (248) 881-3518 <a href="mailto:timothy.cushing@gm.com">timothy.cushing@gm.com</a>	
David Glaenzer Voting Member	Afton	Phone: (804) 788-5214 <a href="mailto:Dave.Glaenzer@aftonchemical.com">Dave.Glaenzer@aftonchemical.com</a>	ATTEND
Rich Grundza Voting Member	ASTM TMC	Phone: (412) 365-1034 <a href="mailto:reg@astmtmc.cmu.edu">reg@astmtmc.cmu.edu</a>	ATTEND
Jeff Hsu Voting Member	Shell	Phone: (832) 419-3482 <a href="mailto:j.hsu@shell.com">j.hsu@shell.com</a>	
Tracey King Voting Member	Haltermann	Phone: <a href="mailto:tking@jhaltermann.com">tking@jhaltermann.com</a>	ATTEND
Teri Kowalski Voting Member	Toyota	Phone: (734) 995-4032 <a href="mailto:teri.kowalski@tema.toyota.com">teri.kowalski@tema.toyota.com</a>	
Dan Lanctot Voting Member	TEI	Phone: (210) 690-1958 <a href="mailto:dlanctot@tei-net.com">dlanctot@tei-net.com</a>	
Brian Marks Voting Member	BP Castrol	Phone: (973) 686-3325 <a href="mailto:Brian.Marks@bp.com">Brian.Marks@bp.com</a>	
Nathaniel Moles Voting Member	Lubrizol	Phone: (440) 347-4472 <a href="mailto:Nathaniel.Moles@Lubrizol.com">Nathaniel.Moles@Lubrizol.com</a>	ATTEND
Andy Ritchie Voting Member	Infineum	Phone: (908) 474-2097 <a href="mailto:Andrew.Ritchie@infineum.com">Andrew.Ritchie@infineum.com</a>	
Ron Romano Voting Member	Ford Motor	Phone: (313) 845-4068 <a href="mailto:rromano@ford.com">rromano@ford.com</a>	
Clifford Salvesen Voting Member	ExxonMobil	Phone: <a href="mailto:clifford.r.salvesen@exxonmobil.com">clifford.r.salvesen@exxonmobil.com</a>	ATTEND
Kaustav Sinha Voting Member	Chevron Oronite	Phone: (713) 432-6642 <a href="mailto:LFNQ@chevron.com">LFNQ@chevron.com</a>	ATTEND
Haiying Tang Voting Member	Chrysler	Phone: (248) 512-0593 <a href="mailto:HT146@Chrysler.com">HT146@Chrysler.com</a>	
Dan Worcester Voting Member	Southwest Research Institute	Phone: (210) 522-2405 <a href="mailto:dan.worcester@swri.org">dan.worcester@swri.org</a>	ATTEND

**ASTM SEQUENCE VI**

Name	Address	Phone/Fax/Email	Attendance
Ed Altman	<a href="mailto:ed.altman@aftonchemical.com">ed.altman@aftonchemical.com</a>	Afton	
Bob Campbell	<a href="mailto:Bob.Campbell@aftonchemical.com">Bob.Campbell@aftonchemical.com</a>	Afton	
Todd Dvorak	<a href="mailto:todd.dvorak@aftonchemical.com">todd.dvorak@aftonchemical.com</a>	Afton	ATTEND
Greg Guinther	<a href="mailto:greg.guinther@aftonchemical.com">greg.guinther@aftonchemical.com</a>	Afton	
Terry Hoffman	<a href="mailto:Terry.Hoffman@aftonchemical.com">Terry.Hoffman@aftonchemical.com</a>	Afton	
Christian Porter	<a href="mailto:Christian.porter@aftonchemical.com">Christian.porter@aftonchemical.com</a>	Afton	
Jeremy Styer	<a href="mailto:Jeremy.styer@aftonchemical.com">Jeremy.styer@aftonchemical.com</a>	Afton	
Amol Savant	<a href="mailto:ACSavant@ashland.com">ACSavant@ashland.com</a>	Ashland	ATTEND
Tisha Joy	<a href="mailto:Tisha.Joy@bp.com">Tisha.Joy@bp.com</a>	BP	
Don Smolenski	<a href="mailto:donald.j.smolenski@gm.com">donald.j.smolenski@gm.com</a>	Evonik	
Mark Mosher	<a href="mailto:Mark.r.mosher@exxonmobil.com">Mark.r.mosher@exxonmobil.com</a>	ExxonMobil	ATTEND
Doyle Boese	<a href="mailto:Doyle.boese@infineum.com">Doyle.boese@infineum.com</a> Phone: (908) 474-3176	Infineum	ATTEND
Gordon Farnsworth	<a href="mailto:gordon.farnsworth@infineum.com">gordon.farnsworth@infineum.com</a>	Infineum	ATTEND
Mike McMillan	<a href="mailto:mmcmillan123@comcast.net">mmcmillan123@comcast.net</a>	Infineum	ATTEND
Jordan Pastor	<a href="mailto:Jordan.pastor@Infineum.com">Jordan.pastor@Infineum.com</a> Phone: (313) 348-3120	Infineum	
Mike Warholic	<a href="mailto:Michael.warholic@Infineum.com">Michael.warholic@Infineum.com</a> Phone: 908.474.2065	Infineum	
William Buscher	<a href="mailto:william.buscher@intertek.com">william.buscher@intertek.com</a>	Intertek	
Charlie Leverett	<a href="mailto:charlie.leverett@intertek.com">charlie.leverett@intertek.com</a> Phone: (210) 647-9422	Intertek	
Addison Schweitzer	<a href="mailto:addison.schweitzer@intertek.com">addison.schweitzer@intertek.com</a>	Intertek	
Al Lopez	<a href="mailto:Al.Lopez@intertek.com">Al.Lopez@intertek.com</a>	Intertek	
Addison Schweitzer	<a href="mailto:addison.schweitzer@intertek.com">addison.schweitzer@intertek.com</a>	Intertek	
Bob Oree	<a href="mailto:oree@netzero.net">oree@netzero.net</a>	Intertek	
Angela Willis	<a href="mailto:angela.p.willis@gm.com">angela.p.willis@gm.com</a>	GM	
Jeff Kettman	<a href="mailto:Jeff.kettman@gm.com">Jeff.kettman@gm.com</a>	GM	
Mike Raney	<a href="mailto:Michael.p.raney@gm.com">Michael.p.raney@gm.com</a> Phone: (248) 408-5384	GM	
Andy Buczynsky	<a href="mailto:andrew.buczynsky@gm.com">andrew.buczynsky@gm.com</a>	GM	
Bruce Matthews	<a href="mailto:bruce.matthews@gm.com">bruce.matthews@gm.com</a>	GM	
Jerry Brys	<a href="mailto:Jerome.brys@lubrizol.com">Jerome.brys@lubrizol.com</a>	Lubrizol	
Jessica Buchanan	<a href="mailto:Jessica.Buchanan@Lubrizol.com">Jessica.Buchanan@Lubrizol.com</a>	Lubrizol	
Michael Conrad	<a href="mailto:Michael.Conrad@Lubrizol.com">Michael.Conrad@Lubrizol.com</a>	Lubrizol	
Joe Gleason	<a href="mailto:Jog1@lubrizol.com">Jog1@lubrizol.com</a>	Lubrizol	
G. Szappanos	<a href="mailto:George.Szappanos@lubrizol.com">George.Szappanos@lubrizol.com</a>	Lubrizol	
Kevin O'Malley	<a href="mailto:Kevin.OMalley@lubrizol.com">Kevin.OMalley@lubrizol.com</a>	Lubrizol	ATTEND
Scott Rajala	<a href="mailto:srajala@ILAcorp.com">srajala@ILAcorp.com</a>	Idemitsu	
Dave Passmore	<a href="mailto:dpassmore@imtsind.com">dpassmore@imtsind.com</a>	IMTS	









A Program of ASTM International

# ***Test Monitoring Center***

<http://astmtmc.cmu.edu>

## Summary of VIE Matrix

11/24/2015

# Summary of Uncorrected Results

Oil	Testkey	Lab/ Stand	FEI1	FEI2	FEISUM	BLB2 Shift	BLA Shift
542-2	110588-VIE	D2	2.77	1.70	4.47	0.16	1.03
542-2	110003-VIE	B1	3.00	1.86	4.86	0.34	0.76
1010-1	110587-VIE*	A2	1.69			0.34	
1010-1	113223-VIE*	F2	2.12	2.14	4.26		
544	113224-VIE*	G2	1.36	1.83	3.19		
542-2	105704-VIE*	G2	2.88				

\* Not reported to TMC

# VIE Matrix

- Please do not apply engine hour correction to FEI1 and 2 results.



**A Program of ASTM International**