

Minutes of the Sequence VIF Task Force Teleconference Call

December 09, 2015 08:00 CST

The thirteenth meeting of the Sequence VIF Task Force was called to order by Chairman Dan Worcester at 08:00 CST. The meeting Agenda is included as Attachment 1. The meeting attendance roster is included as Attachment 2.

Chairman Worcester opened the meeting at 08:00 CST and had no opening comments.

The minutes from the December 02, 2015 meeting were approved as written and are available on the ASTM-TMC web site. Motion for approval by Dan Worcester, second by David Glaenzer.

<ftp://ftp.astmtmc.cmu.edu/docs/gas/sequencevi/minutes/VIFTaskForceMinutes20151202.pdf>

"Sense Check" testing continues on one stand at Southwest Research. Two runs are complete (RO 543 & RO 542-2) and have been reported to the ASTM-TMC and are available in the database.

<ftp://ftp.astmtmc.cmu.edu/refdata/gas/vif/data/>

SRI is running their third test with RO 542-2 and will complete it late Friday, December 11. The fourth test at SRI (RO 543) will start Monday, December 14. The stand will then sit idle until Intertek Automotive Research has completed their four tests. IAR is finishing the shake-down of their first stand to be used for "Sense Check" testing. They have an engine that has already completed 150 hour break-in and anticipate starting their first test late this week or early next.

The next call will be held on Wednesday, December 16 at 08:00 CST.

Having no further business, the meeting was adjourned at 08:09 CST.

Respectfully submitted,

David L. Glaenzer, Afton Chemical Corporation

GF-6B Sequence VIF Task Force
12.09.2015

Toll-free dial-in number (U.S. and Canada):
(866) 588-1857
International dial-in number:
(678) 373-4882
Conference code:
1908975

Scope

The ASTM Sequence VI Surveillance Panel requested a Task Force be formed to determine if the Sequence VIE could be used for OW 16 oils. The TF will look at development of the VIF test using 100 °C oil temperature and 94 °C coolant temperature for stages 1, 3, 4, and 6.

Objective

Review the Toyota proposal attached and work on selection of reference oils, stands to support testing, and running the Sense Check and test matrices.

The agenda for this meeting is shown below, if you have any additions please send them to me and Cc this distribution.

- 1.0 Chairman's Comments
- 2.0 Roll Call
- 3.0 The VIF Task Force was discussed as part of the Surveillance Panel 12.02.2015.
Here are the SP Minutes for review:
<ftp://ftp.astmtmc.cmu.edu/docs/gas/sequencevi/minutes/VIFTaskForceMinutes20151202.pdf>
- 4.0 Oil 543 is at the labs.
- 5.0 The matrix for VIF testing has been chosen. SwRI has completed the first two tests, 543 and 542-2.

Run	EOT Hour	SwRI#1	SwRI#2	IAR#1	IAR#2
1	350	543	1011	542-2	1011
2	550	542-2	542-2	543	543
3	750	542-2	1011	543	1011
4	950	543	543	542-2	542-2
5	1150	1011	543	1011	542-2
6	1350	543	1011	543	1011
7	1550	542-2	542-2	1011	543
8	1750	1011		542-2	

Stage 1 Sense Check Runs will be tested in 2 engines/2 labs

Stage 2 Sense Check Runs will be tested in the other 2 engines/2labs

TMC543 - Oil 400

5.1 Additional Chem for FEI 2 for the matrix

- ICP D-5185
- TAN D-664
- TBN D-4739
- FTIR IIIG METHOD E-168
- VIS D-445

5.2 All chemical analysis be done at IAR and be reviewed at the completion of Sense Check tests.

5.3 FEI 1, 2 and Sum for first test on RO 543:

FEI1 vs. (0.8 BLB2 + 0.2 BLA)	1.75%	1.75%
FEI2 vs. (0.1 BLB2 + 0.9 BLA)	2.33%	2.33%
FEI Sum		4.08%

5.4 FEI 1, 2 and Sum for first test on RO 542-2:

FEI1 vs. (0.8 BLB2 + 0.2 BLA)	2.42%	2.42%
FEI2 vs. (0.1 BLB2 + 0.9 BLA)	1.59%	1.59%
FEI Sum		4.01%

5.5 And FEI 1 estimate for 542-2 repeat:

FEI1 vs BLB2	2.25%
--------------	-------

6.0 Next meeting will be Conference Call on 12.16.2015.

Attachment 2

Name	Affiliation
Adrian Alfonso	Intertek
Amol C Savant	Ashland
Andrew Ritchie	Infineum
Charlie Leverett	Intertek
Chris Castanien	Nesteoil
Cliff Salvensen	ExxonMobil
Cole Hudson	SwRI
Dan Worcester Jr.	Chairman, SwRI
David Glaenzer	Secretary, Afton Chemical
Denny Gaal	ExxonMobil
Doyle Boese	Infineum
Eric Liu	SwRI
Gordon Farnsworth	Infineum
Guy Stubs	SwRI
Jason Bowden	OH Technologies
Jim Linden	Toyota
Jo Martinez	Chevron
Kaustav Sinha	Chevron
Kevin OMalley	Lubrizol
Mark Adams	Tribology Testing
Mark Mosher	ExxonMobil
Martin Chadwick	Intertek
Matthew Bowden	OH Technologies
Michael Conrad	Lubrizol
Mike McMillan	Infineum
Nathaniel Moles	Lubrizol
Patrick Lang	SwRI
Ray Burn	ExxonMobil
Rich Grundza	ASTM Test Monitoring
Robert Stockwell	Oronite
Ron Romano	Ford Motor Company
Satoshi Hirano	Toyota
Teri Kowalski	Toyota
Timothy Cushing	General Motors
Todd Dvorak	Afton Chemical
Tracy King	Haltermann
Valerie Lieu	Chevron
William Buscher	Intertek
Bob Campbell	Afton
Mike Ragomo	ExxonMobil
Travis Kotan	SwRI
Thomas Hickl	GM Europe
Jonas Leber	GM Europe

	10/21/15	11/11/15	12/02/15	12/09/15
	P	P	P	P
V			P	
V		P		
V				
			P	P
V				
	P	P	P	P
V	P	P	P	P
		P	P	P
	P	P	P	P
V	P	P		
V		P	P	
	P			
V	P		P	
V	P		P	
	P		P	
V	P		P	P
	P			
	P			
	P	P	P	P
			P	P
		P	P	
V	P		P	P
		P	P	
V			P	
		P		
V		P	P	
		P		P
			P	
V	P			
V	P	P	P	
	P	P	P	P
	P	P	P	P