

## Minutes of the Sequence VIF Task Force Teleconference Call

January 06, 2016 08:00 CST

The fifteenth 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 with opening comments indicating we would review testing to date.

The minutes from the December 16, 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/VIFTaskForceMinutes20151216.pdf>

"Sense Check" testing continues at Southwest Research and Intertek Automotive Research. Three runs are complete (RO 543, RO 542-2 and a second RO 542-2) at SRI and the fourth (RO 543) is starting this week. IAR has completed their first test (RO 542-2) and is running their second (RO 543). Guy Stubbs from SwRI is creating a spreadsheet that will be distributed having relevant test data. Runs that have been reported to the ASTM-TMC are available at:

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

Used oil samples are being delivered to IAR to complete additional testing as noted in Agenda Item 5.1.

Following the initial four tests at the two labs, in about 2.5-3 weeks, the Stats Group will be able to assess the data. Assuming that data is acceptable, "Sense Check Part 2" will start on two different stands at each lab. The decision to move forward with that part of the program could occur in about a month.

The next call will be held on Wednesday, January 13 at 08:00 CST.

Having no further business, the meeting was adjourned at 08:11 CST.

Respectfully submitted,

David L. Glaenzer, Afton Chemical Corporation

**GF-6B Sequence VIF Task Force**  
**01.06.2016**

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 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.

- 1.0 Chairman's Comments
- 2.0 Roll Call
- 3.0 The VIF Task Force was discussed as part of the Surveillance Panel 12.16.2015.  
Here are the SP Minutes for review:  
<ftp://ftp.astmtmc.cmu.edu/docs/gas/sequencevi/minutes/VIFTaskForceMinutes20151216.pdf>
- 4.0 All reference oils are ready at the two test labs.
- 5.0 The matrix for VIF testing has been chosen. SwRI has completed the first three tests, 543 and 542-2 twice. IAR is running their first test on 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.
- 6.0 Next meeting will be Conference Call on 01.13.2016.

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
Jerry Brys	Lubrizol
Christine Eickscade	SwRI

	12/09/15	12/16/15	01/06/16	01/13/16
	P	P	P	
V			P	
V				
V			P	
	P		P	
V				
V	P	P	P	
V	P	P	P	
	P	P	P	
	P	P		
V		P	P	
V		P	P	
V		P	P	
V		P	P	
V	P	P		
		P	P	
	P	P	P	
	P	P		
V	P	P	P	
		P		
V				
V		P	P	
			P	
V			P	
	P	P		
V		P	P	
		P		
	P		P	
			P	
			P	