

## Minutes of the Sequence VIF Task Force Teleconference Call

November 11, 2015 08:00 CST

The tenth 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 with a few general comments relative to the change of the conference call passcode. He has issued it with the meeting Agenda and will update the Microsoft Outlook message to reflect the change.

The Sequence VI Surveillance Panel minutes contain the VIF Task Force discussions held at that time and are available on the ASTM-TMC web site.

<ftp://ftp.astmtmc.cmu.edu/docs/gas/sequencevi/minutes/VIMinutes20151027.pdf>

ASTM RO 543 has been shipped to the San Antonio labs for the "Sense Check" testing.

Southwest Research will start their first test today, November 11.

Intertek Automotive Research will start their first test during the week of November 23.

Both labs will have second stand ready by the end of the initial "Sense Check" testing.

Additional analyses of the Candidate 2 used oil sample will be done at IAR. This has been spelled out in previous minutes.

With the prospect of no new information being available on November 18, the next call will be held on Wednesday, November 25 at 08:00 CST.

Having no further business, the meeting was adjourned at 08:13 CST.

Respectfully submitted,

David L. Glaenzer, Afton Chemical Corporation

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

**11.11.2015**

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

NOTE CHANGE IN CONFERENCE CODE. US AND INTERNATION NUMBERS ARE THE SAME.

**Scope**

The ASTM Sequence VI Surveillance Panel requested a Task Force be formed to determine if the Sequence VIE could be used for 0W 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 10.27.2015. Here are the SP Minutes for review:

<ftp://ftp.astmtmc.cmu.edu/docs/gas/sequencevi/minutes/VIMinutes20151027.pdf>

- 4.0 Oil 543 is shipped and available for the matrix.
- 5.0 The matrix for VIF testing has been chosen. SwRI will start the Sense Check the week of 11.09.2015 and IAR the week of 11.16.2015. Here is the matrix:

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 SwRI recommends all chemical analysis be done at IAR and be reviewed at the completion of Sense Check tests on whether to continue. VID and VIE only run VIS on new and FEI 2 samples.
- 6.0 Next meeting will be Conference Call on 11.18.2015.

ATTACHMENT 2

Name	Affiliation
Adrian Alfonso	Intertek
Amol C Savant	Ashland
Andrew Ritchie	Infineum
Charlie Leverett	Intertek
Chris Castanien	Nestecol
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

	10/07/15	10/14/15	10/21/15	11/11/15	
	P	P	P	P	
V		P			
V	P	P		P	
V		P			
V					
	P	P	P	P	
V	P	P	P	P	
		P		P	
	P	P	P	P	
V	P	P	P	P	
V		P		P	
	P	P	P		
V	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			P	
		P			
	P		P		
		P			
V	P		P	P	
	P				
	P	P	P	P	