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Issued: December 08, 2015
Reply to: Dan Worcester
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These are the unapproved minutes of the 12.08.2015 Sequence VI Surveillance Panel call.

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The meeting was called to order at 8:02 AM Central Time by Jerry Brys.

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 12.01.2015 meeting.

<ftp://ftp.astmtmc.cmu.edu/docs/gas/sequencevi/minutes/VIMinutes20151201ConferenceCall.pdf>

MOTION: Approve the minutes from the 12.01.2015 conference call.

[Dave Glaenzer, Dan Worcester, second] Approved unanimously.

3.0 Action Item Review

3.1 OHT to provide update on current VIE inventory and service engine order. –OHT
There is no change in engine counts.

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 There is no change in engine counts.

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.

Step	Run Order	SWR1	SWR2	IAR1	IAR2	LZ	Afton	Ashland	XOM	Engine Hours
	SOT Engine Hours	150Hrs Break In	150Hrs Break In	150Hrs Break In	150Hrs Break In	150Hrs Break In	150Hrs Break In	150Hrs Break In	150Hrs Break In	
1	1	RO544	RO1010-1	RO542-2	RO544	RO542-2	RO542-2	RO544	RO1010-1	350
	2	RO544	RO1010-1	RO1010-1	RO542-2	RO544	RO542-2	RO1010-1	RO544	550
	3	RO542-2	RO542-2	RO1010-1	RO1010-1	RO1010-1	RO544	RO542-2	RO544	750
	4	RO1010-1	RO544	RO544	RO1010-1	RO544	RO1010-1	RO542-2	RO542-2	950
	5		RO544		RO542-2	RO544				1150
	6		RO1010-1		RO542-2	RO542-2				1350
	7		RO544		RO544	RO542-2				1550
	8		RO542-2		RO544	RO1010-1				1750
	9		RO542-2		RO1010-1	RO1010-1				1950
	10		RO1010-1		RO544	RO542-2				2150
	11		RO1010-1		RO542-2					2350
EOT Engine Hours		950	2350	950	2350	2150	950	950	950	Total Runs
Runs/Engine		4	11	4	11	10	4	4	4	52

Tests are being reported for the Precision Matrix. Lubrizol has the third test running. XOM has completed the second test and third is running. Afton is running the third test. SwRI is running the second test. Ashland will start their first test this week.

- 4.3 Update from task force, to investigate alternative test procedure Sequence “VIF” that would improve 0W-16. – Dan Worcester/Satoshi Hirano SwRI is running the third test.
- 4.4 Update from task force to investigate option to prolong usable life of the available VIE engines. –Adrian Alfonso/Bill Buscher There will be prices and part numbers from GM 01.22.2015. IAR is reviewing storage methods.

5.0 New Business

- 5.1 Chairman will be unavailable 12/23/2015-1/19/2016 Jerry Brys will be filling in.
- 5.2 Discussion of handling PM engine as calibrated test stands. –Dave Glaenzer
This will be an on-going issue.

6.0 Next Meeting.

The next meeting will be 12.15.2015 conference call.

The meeting adjourned at 8:11 AM.

Sequence VI Surveillance Panel Conference Call Agenda December 8 @ 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 December 1, 2015 Sequence VI Surveillance Panel.

<ftp://ftp.astmtmc.cmu.edu/docs/gas/sequencevi/minutes/VIMinutes20151201ConferenceCall.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

Run Order	SWRI1	SWRI2	IAR1	IAR2	LZ	Afton	Ashland	XOM	Engine Hours	
Step	SOT Engine Hours	150Hrs Break In	150Hrs Break In	150Hrs Break In	150Hrs Break In	150Hrs Break In	150Hrs Break In	150Hrs Break In	150Hrs Break In	
1	1	RO544	RO1010-1 1.60/1.74/3.34	RO542-2	RO544 1.36/1.83/3.19	RO542-2 3.00/1.86/4.86	RO542-2 2.77/1.70/4.47	RO544	RO1010-1 2.12/2.14/4.26	350
	2	RO544	RO1010-1	RO1010-1	RO542-2 2.93/2.16/5.09	RO544 1.48/1.64/3.12	RO542-2 2.53/1.74/4.27	RO1010-1	RO544	550
	3	RO542-2	RO542-2	RO1010-1	RO1010-1	RO1010-1	RO544	RO542-2	RO544	750
	4	RO1010-1	RO544	RO544	RO1010-1	RO544	RO1010-1	RO542-2	RO542-2	950
	5		RO544		RO542-2	RO544				1150
	6		RO1010-1		RO542-2	RO542-2				1350
	7		RO544		RO544	RO542-2				1550
	8		RO542-2		RO544	RO1010-1				1750
	9		RO542-2		RO1010-1	RO1010-1				1950
	10		RO1010-1		RO544	RO542-2				2150
	11		RO1010-1		RO542-2					2350
EOT Engine Hours		950	2350	950	2350	2150	950	950	950	Total Runs
Runs/Engine		4	11	4	11	10	4	4	4	52

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

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

4.6 Discussion of handling PM engine as calibrated test stands. –Dave Glaenzer

5.) New Business

5.1 None

6.) Next Meeting

Next Tuesday (reoccurring weekly meeting)

7.) Meeting Adjourned

ASTM SEQUENCE VI

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