

Sequence III Surveillance Panel Meeting

Teleconference

Tuesday May 8, 2018 10:00 – 12:00 EST

WebEx sent separately

Agenda

As the host, I have not in the past and will not in the future record any ASTM meeting and there are no “authorized persons” that may record an ASTM meeting. As a reminder to everyone the recording of ASTM meetings is prohibited.

1.0) Attendance

1.1) See attachment



CCF05112018.pdf

2.0) Chairman Comments

3.0) Approval of minutes

3.1) Minutes from 3/6/2018 Meeting – approved without objection.

4.0) IIIH Action Items

4.1) IIIH build manual update – **Schweitzer**



Seq IIIH EAM TF
20180403.pptx

Addison Schweitzer updated the group on completed work.

Addison motioned, **“The Seq. IIIH EAM TF motions to the Seq. III SP to target +/- 0.002” for piston ring gaps, the piston ring gap average for the engine block can be no more than target +/- 0.0015”.**

Ed Altman seconded.

Following discussion, the motion passed with

- **13 For**
- **0 Against**
- **1 Waive**

Addison motioned, “The Seq. IIIH EAM TF motions that the Seq III SP approve the proposed changes to finalize the Chrysler IIIH EAM.”

Ankit Chaudhry seconded.

Discussion:

- Addison and Ankit will work on the changes and submit the final copy to TMC.
- The manual will be version controlled and will be available through TMC website.
- TMC will generate information letter for amend section 12 to accommodate some critical limits for the engine build.
 - ACTION: Rich will draft an information letter and circulate it via email before the next meeting.

Following discussion, the motion passed unanimously.

ACTION ITEMS:

- 1) Ankit and Addison to follow up with the completion of the Final Revision of the Seq. IIIH Engine Assembly Manual.
- 2) Ankit and Addison to follow up with a spring build workshop following the conclusion of the Seq. IIIH Engine Assembly Manual Task Force.

EAM TF group is disbanded.

4.2) Coolant Flow Proposal – **Szappanos & Altman**



IIIH 20180508
Coolant Flow Propo

George Szappanos proposed the coolant flow system changes.

- This proposal is intended for new test cells in construction.
- Optional for labs.
- Mostly for IIIG to IIH stands.
- Less hardware.
- We do have this type of setup on other test types and this should not affect the severity.

This will be delayed till next call since Jeff Betz and Haiying are not on the call.

Action: George will work on the motion and circulate it through Robert to get a vote on this. This might be achieved via email.

4.3) 70-Hour IIIH report for HD – **Stockwell**

Robert Stockwell – This might happen in month or two. We will be updated as Robert finds out more on this.

4.4) IIIF/G Hone calibration extension – **Schweitzer**

Motion – “Yearly calibration of the CV616 honing machine used for Sequence IIIF and IIIG testing will no longer be mandatory.”

Reason: Sunnen no longer has functional calibration equipment for this model

Sid Clark seconded.

Following discussion, the motion passed with

- 14 For

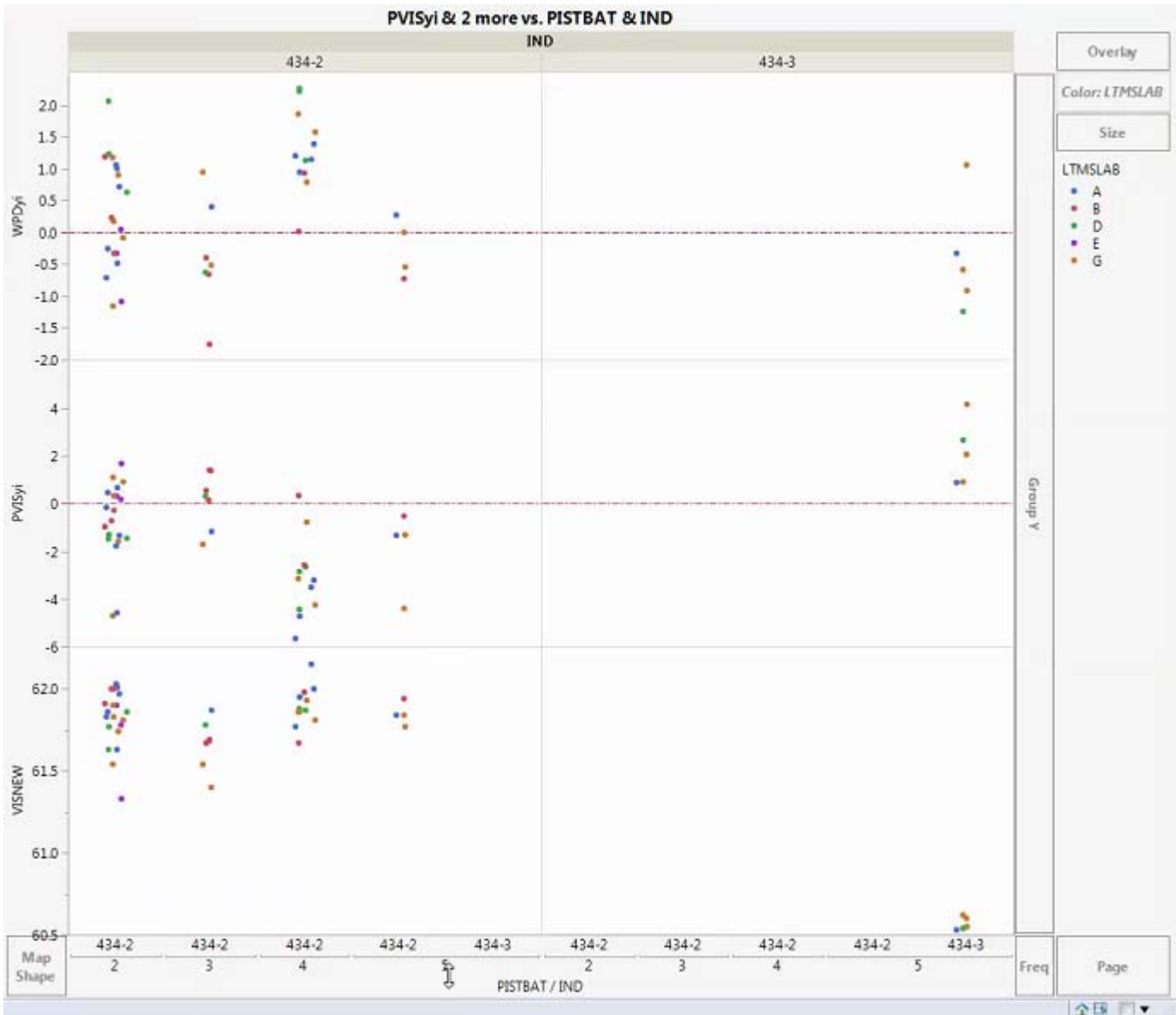
- 0 Against
- 4 Waive

5.0) Old Business

6.0) New Business

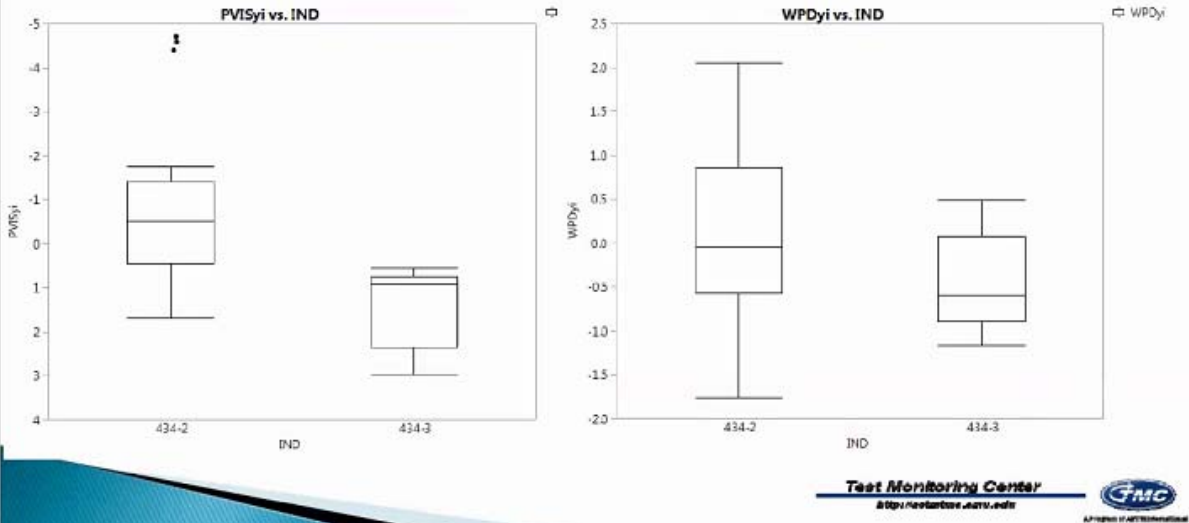
Todd Dvorak presented some data for 434-3.

Todd Dvorak presented data on 434-3 showing a shift in PVIS Yi performance on BC5 hardware. The results appear to be severe from target on WPD and severe on target versus PVIS.



Rich presented some data on 434-3 as well.

Results for both PVIS and WPD appear to be Severe of target and more severe than Batches 2, 3 or 5



- ▶ 5 tests reported to TMC on 434-3, all on batch 5 rings
- ▶ 1 test used for calibration, 4 other tests were post BOI-VGRA

TESTKEY	LTMSLAB	LTMSAPP	IND	VAL	LTMSDATE	PVIS_OR	PVISyi	WPD_OR	WPDyi
133377-IIIH	G	4	434-3	AC	20180402	166.46	0.918	3.75	-0.58571
133378-IIIH	G	6	434-3	NI	20180404	142.88	0.564	4.5	0.485714
135503-IIIH	G	1	434-3	NI	20180410	401.89	2.963	3.35	-1.15714
135554-IIIH	D	1	434-3	NI	20180416	235.44	1.722	3.73	-0.61429
134139-IIIH	A	2	434-3	NI	20180418	164.76	0.894	3.93	-0.32857
						Mean Δ/s	1.412243	Mean Δ/s	-0.44
						Mean Δ/s	-0.50013	Mean Δ/s	0.12

Batch 2/3 Ring batch performance with RO 434-2

Discussion:

- Check for volatility data.
- Labs would like to not use this reference oil for their next reference

Rich Grundza presented data from 5 tests on 434-3 (one test was used for calibration, one test was post BOI-VGRA). From the available data set, it appears that 434-3 performs differently than 434-2 on all 4 parameters (PVIS, WPD, PRET, and MRV). Ed Altman expressed concerns that the control charts have been impacted in the past by shifting severity over batch codes of hardware and that the shift seen on 434-3 will impact the control charts negatively. The severity on 434-3 is concerning to the IIIH test type due to potential impacts to severity. Rich agreed to review the report from the 434-2 versus the 434-3 comparison chemically.

Motion “Suspend the use of reference oil 434-3 till the next Sequence III surveillance panel meeting.”

Amol Savant seconded.

Following discussion, the motion passed unanimously.

7.0) Review / Update Scope and Objectives

8.0) Next Meeting

Tuesday June 12th 9:00 – 11:00 AM CDT

9.0) Meeting Adjourned

Tuesday May 8th, 2018 at 10:28 AM CDT