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Committee D02 on PETROLEUM PRODUCTS AND LUBRICANTS

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Unapproved Minutes of the May 1, 2013
Sequence III Surveillance Panel Conference Call.

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The call was initiated by Chairman Glaenzer at 11 AM Eastern Time.

The agenda is included as attachment 1.

A listing of participants is included as attachment 2.

Minutes from the April 2, 2013 meeting were approved with no comments.

Critical Parts Inventory/Action items from previous meeting

Dave updated the panel on hardware. There are 1500 – 1600 runs on rods and cranks remaining and 1100 – 1200 runs of cylinder heads and blocks. There will not be sufficient heads and blocks to see the test through 2016, but the quantity of hardware available is enough to last through 2015. Dwight Bowden questioned the discrepancy in heads and blocks from the last meeting. Scott Stapp indicated that there was a large order that was cancelled and that a number of heads were out for machining. Scott also indicated that there are a number of heads with production issues, including scratches/gouges in the heads. These heads may be used if the production issues can be resolved. Scott was tasked with providing an exact number of heads with production issues. Discussions turned to installation of hardened seats in the intake position. Seat material is being analyzed and Scott will contact the machine shop when this information is available. Labs were requested to send clean used heads to the Race shop and Scott acknowledge that heads from several labs were received. It is estimated that feasibility of reworking heads will be determined in the next month or so. Donated tests on the new ring batch have been reported from three labs and the panel is awaiting a fourth test from another lab. Dave had sent notification to both the Engine Oil and Heavy duty Class Panels regarding the changes to IIF charting protocol. Changes to the report forms and data dictionary regarding hours to 275% vis increase will take affect 5/14/2013. The panel agreed to make this the effective date for the information letter. One laboratory needs to complete a donated test on the new ring batch. Three donated tests have been reported. The panel agreed to begin introducing reference oil 433-2 for calibration attempts. Motion: Ed Altman, Second George Szappanos.

Screened Average Cam and Lifter Wear Issues

A motion was made by Charlie Leverett, seconded by Bruce Matthews, to remove SACLW as a pass fail parameter. A presentation supporting Charlie's motion is included as attachment 3. Rich Grundza raised concerns about whether additional iron in the oil may alter the viscosity increase. Both Ed Altman and Charlie Leverett stated that results in their labs indicated that the higher wear did not appear to impact viscosity increase. Rich also expressed concerns about test performance, given that APV has been in mild alarm since 2006, the panel has changed the method for calculating and adjusting PVIS and now the dropping of SCALW, is the test capable of providing results at historical levels. After some discussion, the panel approved the removal of SACLW for reference tests only, Motion Charlie Leverett, second, Bruce Matthews. This motion is effective today and was deemed as an immediate change to the LTMS. The motion was approved 6/0/6. Voting summary is included as attachment 4. This change will be reviewed in six months, along with the hours correction.

New Business

The panel reviewed the status of front covers and the gear drop specification. Jason Bowden identified that these front covers were from the GM build out and OHT had procured a cover from the dealer network and it exhibited the excessive clearance as well. Machining the covers would not resolve the problem, as machining the covers to meet the drop specification would put the cover out of specification for other dimensions(s). OHT is following up with GM for corrective action. Jason also indicated that he can't determine if this condition existing on previous hardware, as these measurements were not performed on previous covers. GM engineers indicated that this increased clearance would not be a problem at this speed and oil pressure. Considerable discussions took place regarding the use of these covers and a motion was made by Charlie Leverett, seconded by Bruce Matthews, to increase the gear drop measurement from 0.089 mm to 0.153 mm and continue to try and obtain material that falls within the **original** specified range. This vote was unanimous and both the IIF and IIG manuals will be updated to reflect this value.

Allocation of Parts

Bruce Matthews discussed a proposal to allocate remaining parts at GM race shop.

Bruce indicated that the independent labs would be given priority of the parts at the Race Shop, given the delays for GF-6 and to insure test viability with the finite number of parts available. Concerns were raised about potential legal action and that previous methods had 90 day purchase limitations and a six month limitation on the amount of parts to be held in a lab. An action item was assigned to determine if heads with the scratches/gouges can be reworked to remove the damage and make these hardware viable. Discussions took place regarding hardware surveys and additional task force items, but no formal action was taken. The Chairman will work with Jason Bowden to define Goals and Objectives for the re-formation of the Sequence III Test Hardware Control Task Force.

The conference call ended at 12:37 PM Eastern Time.

Attachment 1

May 01, 2013 Teleconference
11:00 EDT
Call-in Number is: (866) 817-9787
Participant Passcode: 2158089
Non Toll-Free: (203) 320-2489

Agenda

1.0) Attendance

2.0) Approval of minutes

- 2.1) April 2, 2013 – San Antonio, TX

3.0) Action Item Review

- 3.1) Conduct critical parts inventory; complete, emailed 04/18/13, Glaenzer
- 3.2) SwRI provide GM information of cylinder head seat work, Lang/Clark
- 3.3) GM to investigate feasibility of installing Intake seats, Kettman/Stap
- 3.4) GM to produce pilot batch of heads with new seats, Kettman/Stap
- 3.5) All labs send one set of cleaned, used heads to GM, All Labs
- 3.6) GM to measure used heads to ensure they fall within specifications, Stap
- 3.7) Notify PCEOCP & HDEOCP of upcoming Sequence IIIF PVIS changes; complete, emailed 04/16/13, Glaenzer
- 3.8) TMC follow up with DCC to expedite IIIF changes; complete, Grundza/Clark
- 3.9) SP chair to schedule follow-up teleconference (IIIF PVIS implementation); complete
- 3.10) Labs recreate IIIF PVIS LTMS history; underway

4.0) Old Business

- 4.1) Update on IIIF RO433-1 tests with BC 11 rings; Grundza
- 4.2) Introduction of RO 433-2 in IIIF test; Grundza
- 4.3) SACLW in Sequence IIIF RO 433 tests; Leverett

5.0) New Business

- 5.1) Front cover oil pump gear drop specification; Bowden, J
- 5.2) Implementation of IIIF PVIS changes to LTMS system; Clark/Grundza
- 5.3) Allocation of remaining Sequence III parts; Matthews

6.0) Review Scope and Objectives

- 6.1) All

7.0) Next Meeting

- 7.1) TBD

8.0) Meeting Adjourned