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Subject: Mack Surveillance Panel Meeting Minutes - November 2, 2016
Date: Wednesday, November 02, 2016 12:38:57 PM

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Everyone,

The following are the unconfirmed minutes of the Mack Surveillance Panel Meeting held on November 2, 2016. The meeting was conducted by WebEx. Please feel free to let me know if there are any changes or revisions needed. Thanks.

Call Participants:

Afton – Bob Campbell, Christian Porter

ExxonMobil – Cliff Salvesen

Infineum – Bob Salgueiro (Secretary), Elisa Santos, Jim Gutzwiller

Intertek – Jim Moritz, Luiz Garcia, Juan Vega

Lubrizol – Nick Secue, Kevin O’Malley

Oronite – Mark Cooper (Chairman), Jim Rutherford

SwRI – **Bob** Warden

TEI – Mark Sutherland

TMC – Sean Moyer

Mack Surveillance Panel Meeting

The Mack Surveillance Panel meeting was called to order at 10:39 AM Eastern, by Mark Cooper, Chairman of the Surveillance Panel. The agenda topics are listed below, with discussions and actions following.

Note: Due to internal meeting conflict, Greg Shank was unable to

attend the meeting, but had instructed the Chairman that the SP should meet and continue with discussions on the topics below.

Agenda Topics:

- **Mack T-8 LTMS**

Jim reviewed his presentation and proposal, previously sent out to the Surveillance Panel, comparing the current LTMS for the T-8E vs a Modernized LTMS (see secure link below). Included, was a proposal to make relative viscosity @ 4.8% soot critical. There was concern about trying to hit two critical parameters at the same time expressed by Bob Warden. The Surveillance Panel members should review Jim's proposal and decide if this needs to be balloted, if further discussion is needed, or to flesh out any additional comments before the next SP meeting.
- **Update Around T-12 Rings / Availability**

Supplier is targeting a January 2017 delivery.
- **T-12 Had Gasket Alternative Supply Update**

TEI will follow up with Cometic. Juan Vega at Intertek found a "PAI" gasket that looks promising. It's not the same supplier making the MACK and aftermarket gasket. These are fatter and stiffer. Intertek will be trying the new gasket and report back to Surveillance Panel.
- **T-13 Head Gasket Staining/Rusting - Update**

TEI reported that if head gaskets had "real" rust, where the gaskets are spot welded, TEI is not sending those out. Stained gaskets however, are being sent out.
- **T-12 Rod Bearing - Surface Issues with Batch Y bearings**

Volvo still waiting for response regarding rod bearing "bubbling" marks.
- **T-13 Negative KV40 Increase Results**

The T-13 can have negative KV40 increase result. Issue was you can't take the square root of a negative number (imaginary). There was a lengthy philosophical debate about whether to cap negative values at zero or carry the negative values through and allow negative % KV40 increases. Some argued that the T-13 parameter is kinematic Viscosity at 40C % increase, and therefore you cannot have negative increases so values should be capped. Others felt negative % changes in viscosity were a real phenomenon in the T-13 and therefore should be allowed. There was a lengthy discussion about what to do.

At one point it was asked what would be the biggest positive SA that might be applied and calculate a few scenarios with negative original unit results.

$(1.8 \times 929)^2 = 2.8$ would be the maximum positive SA that could be applied. It was not thought to be very significant. Eventually a motion was proposed.

MOTION: Cliff Salvesen motioned and Bob Warden

seconded, that if the original result is negative prior to transformation, the final value will be reported as zero and a note will be included on comments page of the test report, reporting raw value. After further discussion TMC confirmed that this issue was already addressed within the ASTM procedure for the T-13, Cliff subsequently withdrew his motion.

A discussion was initiated about using a stand based SA like the IIIH vs a Lab based system but it was decided to continue this discussion for another date.

Old/New Business

- **None**

Other Business

- **None**

Next Meeting

- **November 18, 2016 at 1:00 PM Eastern**

The Mack Surveillance Panel adjourned at 12:15 PM Eastern.

Respectfully submitted,

Bob Salgueiro

Industry Liaison Advisor

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