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Subject: Mack Surveillance Panel Meeting Minutes - March 2, 2016
Date: Wednesday, March 02, 2016 4:33:25 PM

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Everyone,

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

Call Participants:

Afton - Bob Campbell, Abaigeal Ritzenthaler
ExxonMobil - Mike Alessi
Infineum - Bob Salgueiro (Secretary), Elisa Santos, Pat Fetterman
Intertek - Jim Moritz
Lubrizol - Jim Matasic, Nick Secue, Kevin O'Malley, John Ahlborn
Oronite - Mark Cooper (Chairman), Jim Rutherford
SwRI - Robert Warden, Travis Kostan
TEI - Mark Sutherland
TMC - Sean Moyer
Volvo/Mack - Greg Shank

Mack Surveillance Panel Meeting

The Mack Surveillance Panel meeting was called to order at 1:32 PM Eastern, by Mark Cooper, Chairman of the Surveillance Panel. The agenda topics are listed below, with discussions and actions following.

Agenda:

- Mack T-12 Industry correction factor updates

SwRI had proposed changing their vote on the second motion from the Feb 25th meeting. As a Surveillance Panel, we need to decide if we want to use oil consumption (OC) correction for Pb or go back to multiplicative correction as done for other T-12 parameters.

Jim reviewed a presentation Mack T12 LTMS20160222 New Parts and ICF Review. He began highlighting some philosophical points before getting into the details of the presentation. He felt OC Pb correction should be done if we believe that OC is impacting the Pb values. Should we be correcting if the differences are not statistically significant? Doesn't this add variability? LTMS Severity Adjustments are continuous adjustments. Correcting T-12 parameters even if the difference is not statistically significant is not quite the same, as these corrections are implemented after several results, not continuous recalculated after each result. Statistical significance may not be appropriate given such little data when calculating new correction factors.

Jim reviewed the graphs. PBOCC (oil consumption corrected) was on top, PBOCC2 using a shallower slope below OC of 65. Slope above 65 is .03 and below 65 is .01.

Slide 5 had ICF proposals. Upper Left table had current correction factors based on VUXOA&B. Lower Left table were the ICFs suggested at last meeting based on VUYPC batches. Upper Right table had ICF calculated based on VUYPC, but for liner wear VC. Lower Right was the same but combined all piston crown batches (A,B,C) together.

A discussion was held on what are right batches to use. With the improved manufacturing process we could consider them all the piston crowns similar. There was general agreement to group them together. The next question was what to do about a Pb correction?

Jim Rutherford pointed out that there have been a few high Pb results in last few years which complicates the correction. Jim was concerned that we were correcting one performance criteria with another. Bob Warden reviewed his e-mail (attached) that Oil consumption would now influence heavily 3 parameters in T-12 merit calculations. The concern was raised again about penalizing oils with low oil consumption based on the application of the oil consumption. Jim Rutherford asked if having the correction took away some of the incentive to try to continue to improve OC. Greg was concerned because with the Pb correction, a 650 merit oil would now be closer to 800 merits. Small adjustments in Pb in the merit system have a huge effect. Bob Campbell believed that correcting Pb would be better than what we have today. But oils should also not be penalized for low OC.

Bob Campbell motioned and Jim Matasic seconded, to use Industry Correction Factors which group Pistons Crown Batches A,B,C, together for Mack T-12 parameters Top Ring Weight Loss, Cylinder Liner Wear, Oil Consumption, subject to verification, then use OC based Pb parameter corrections Jim calculated for oil consumption values of 65 or greater and no corrections for below 65.0.

Voice vote results:

Afton - YES

ExxonMobil - YES

Infineum - YES

Intertek - YES

Lubrizol - YES

Oronite - YES

SwRI – YES

TEI - WAIVE

TMC - WAIVE

Volvo/Mack – YES

With no negatives, no waivers, the motion carried.

The industry statisticians agreed to meet 3/3/2016 2:00PM Eastern to review and verify the ICFs. The verified ICFs will be sent out by Mark Cooper to the rest of the Surveillance Panel by end of day tomorrow.

Jim Moritz motioned and Bob Salgueiro Seconded, that stands that were in pending status, the start of their calibration period begins with the retransmission of tests results with the new ICFs.

With no negatives, no waivers, the motion carried.

The April 5th 2011 start date of resubmission for Labs still apply. Only test pending calibration will be re-evaluated by TMC.

Other Business

- Rod Surface Finish of big end – Volvo still working to answer the question why are they different. Greg Shank will follow-up.
- Sean Moyer brought up that since using square root transformation for T-13 Kinematic Viscosity increase, the transformation cannot calculate with a negative Kv increase as the result would be an imaginary number.

Bob Campbell motioned and Jim Matasic seconded that for T-13 KV increase, after severity adjustment is applied the result cannot be less than zero.

With no negatives, no waivers, the motion carried.

Next Meetings

- Greg wanted the Surveillance Panel to consider a Face to face meeting on May 4th in San Antonio, TX. Greg will confirm pending no conflicts.

Respectfully submitted,

Bob Salgueiro

Industry Liaison Advisor

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