

DD13 Surveillance Panel Teleconference Meeting Minutes

November 3, 2016

11:00 AM CST

Call Participants:

Lubrizol - Patrick Joyce, Kevin O'Malley, Jim Matasic
Southwest Research Institute – Jose Starling, Travis Kostan
Intertek - Jacob Goodale
Daimler - Suzanne Neal, Gregory Braziunas
Infineum - Bob Salgueiro, David Brass, Jim Gutzwiller, Elisa Santos
Volvo - Greg Shank
Afton - Cory Koglin
Oronite - Mark Cooper, Jim Rutherford
TMC – Sean Moyer
TEI – Mark Sutherland

Parts Update – Mark Sutherland (TEI)

Some kits went out with a new oil control ring part number without being noticed by TEI (A4710818001 VS A4711118001). According to TEI Daimler says no issue with these rings and are ok to use. The part number on these should be checked and adjusted to insure the correct part number is being recorded.

Liners are being batched for this test with the “first” batch composed of 2052 liners. TEI to notify group when these are expected.

TEI Liner Roughness Measurements – Mark Sutherland (TEI)

Leading back to the notes from last meeting minutes: TEI noticed a shift in Liner roughness measurements with some liners out of specification listed by Detroit Diesel. In the comparison of measurements between TEI and DD it was found that Detroit uses a slightly different size stylus which may be the cause of liner measurement differences since TEI uses a finer tip. However that does not account for the shift from previous liner measurements. TEI is to put a study together comparing data produced from both stylus and send to Detroit to see how they compare and if a correlation can be made. The choice of what stylus to continue to use in the future will be made once this data is available. Each liner receives 4 traces and they are averaged together, no data is removed from these measurements. If you redo the measurement you may get a different answer each time. If there is a desire to have liners measured differently in terms of how the data is acquired or processed by TEI it needs to be brought up and agreed to in the SP so that TEI can adjust accordingly.

Statistical Review of TEI Kit Data – Kevin O'Malley (Lubrizol)

Nothing overly strong in the correlation study which indicates difference in scuffing values. A summary of differences is listed in the presentation and is attached to these meeting minutes. The noticeable shift in liner surface measurements as mentioned by TEI was noted. In addition, there was a change in the top ring roughness and face width measurements from batch A rings to batch B ring data from Intertek runs. There are three additional tests on Batch B rings that are not included in the current analysis which should be added. Sean will gather this data and upload to TMC site for all to access and Kevin will add this for statistical analysis and comparison.

Items for TMC information letter on ASTM procedure and changes to Report Format – SP

Section 10.7.2 should be worded to clearly state when scuffing has not occurred only then should the hours to scuff be greater than the time on the test counter at EOT. Section 11.5 may need to be modified to include engine hours as part of the test report, but the test number will remain as is currently listed in procedure.

The report format will be modified to accept the (>) symbol for the hours to scuff field in form 4, however this should not be used for calibration tests as only numbers are allowed. The table on Form 5 will be modified to account for current limit values listed in the procedure (report change only). On Form 6, coolant flow is a ranged parameter and will be removed as a QI parameter. On Form 14 a 31 hour fuel dilution will be added to the report format as it is currently indicated in the procedure along with an EOT HTHS value.

A motion with the changes to specific sections in the ASTM procedure will be sent out by Patrick Joyce.

Next meeting scheduled for November 17th from 9am to 11am CST: Topics to include

Reports

- Parts Update – Mark Sutherland
- Fuel Update – Mark Cooper

Unfinished Business

- TEI Liner Roughness Measurements – Suzanne Neal/Mark Sutherland
- Statistics review of TEI and scuffing kit data – Kevin O'Malley

New Business

- Review of Lubrizol's Reference – Patrick Joyce
- Fuel wording (PC-10 or minimum spec) - Surveillance Panel

Adjournment: The DD13 Surveillance Panel meeting adjourned at 1:15 p.m. CST.