

**From:** [Salgueiro, Bob](#)  
**To:** [Alessi, Michael \(michael.l.alessi@exxonmobil.com\)](#); [Bishop, Zack](#); [Boese, Doyle](#); [Mark Sutherland](#); [Campbell, Bob \(Bob.Campbell@AftonChemical.com\)](#); [Cauley, Chris](#); [Jeff Clark](#); [Conti, Ricardo \(riccardo.conti@exxonmobil.com\)](#); [Garcia, Luiz \(luiz.garcia@intertek.com\)](#); [Rich Grundza](#); [Gutzwiller, James](#); [Johnson, Kurt D. \(kurt.johnson@swri.org\)](#); [Kennedy, Steve \(steven.kennedy@exxonmobil.com\)](#); [Lanctot, Dan \(dianctot@tei-net.com\)](#); [Matasic, Jim \(james.matasic@lubrizol.com\)](#); [McCord, James F. \(jmccord\) \(SwRI\)](#); [Moritz, Jim \(Intertek\)](#); [Sean A. Moyer](#); [OMalley, Kevin Kevin \(OMalley@lubrizol.com\)](#); [Ritchie, Andrew](#); [Rutherford, Jim \(JARU\)](#); [Santos, Elisa](#); [Secue, Nick \(Nicholas.Secue@Lubrizol.com\)](#); [Shank, Greg \(greg.shank@volvo.com\)](#); [Sutherland, Mark \(msutherland@tei-net.com\)](#); [VanScoyoc, Jonathan \(vanscj@cpchem.com\)](#); [Warden, Robert W. \(robert.warden@swri.org\)](#); [Juan Vega Intertek \(juan.vega@intertek.com\)](#); [Booth, James E. \(James.Booth@chevron.com\)](#); [Cooper, Mark \(MAWC\)](#); [Salvesen, Clifford R \(clifford.r.salvesen@exxonmobil.com\)](#); [raymond.g.burns@exxonmobil.com](#); [Juan Vega Intertek](#); [Chris.Taylor@VPRacingFuels.com](#); [Mlochte@swri.org](#)  
**Cc:** [Kostan, Travis G. \(travis.kostan@swri.org\)](#)  
**Subject:** Mack Surveillance Panel Meeting Minutes - August 30, 2016  
**Date:** Tuesday, August 30, 2016 11:46:22 AM

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Everyone,

The following are the unconfirmed minutes of the Mack Surveillance Panel Meeting held on August 30, 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 - Christian Porter, Bob Campbell  
ChevronPhillips – Jonathan VanScoyoc  
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 – 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 10:37 AM Eastern, by Mark Cooper, Chairman of the Surveillance Panel. The agenda topics are listed below, with discussions and actions following.

**Agenda Topics:**

- **Status of coordinated references for new T-12 ring batch “W”**  
Afton T-12 reference test is currently at 50 hrs. SwRI transitioned to Phase 2 this morning. Intertek should be ready to run this Friday. Lubrizol is delayed by about 1.5 weeks. SwRI Phase I used oil analysis and oil consumption data looked good so far. Once reference test results are completed they will be discussed at the next call.

- **Continued discussions around head gaskets**  
Fire ring in gaskets are thinner and may not be compressing fully resulting in failure of the gasket and aeration of the coolant. Volvo is still waiting to hear back from their aftermarket group. Afton tried another brand of head gasket but it behaved similarly. Other labs see #3 and #6 fire rings pushed. Afton will keep monitoring the issue. Afton measured the compression made in the gasket by the liner and its .004 to .006 inch. Multi-layer steel gaskets could be pursued. Afton asked if maybe liners could be slightly taller to improve fire ring compression. IAR noted there appeared to be an optional thicker fire ring gasket. Luiz Garcia (IAR) will follow up with Mack dealer about ordering the thicker fire ring gasket. Afton volunteered to follow up with Cometic about having a custom made gasket.
- **T-8 mild reference results**  
Intertek is running another reference. Soot windows were achieved but viscosity increase seems to be mild. The latest reblend of reference oil TMC-1005-5 is being used. There are 8 results on 1005-5 all but 1 are mild. But there are also a few TMC1005-4 results in the mix of data suggesting it may not be an oil batch issue. There was a change made in 2015 to allow rebuilt injection pumps. Need to find out if there was a hardware batch change around the same timeframe. TMC reported that in March 2014 a motion was made to allow use of rebuilt pumps. Timing changes were allowed starting Aug 26, 2014. Final total timing change couldn't be greater than 1 degree. TMC thinks they can publish the timing data recorded by the labs. It is also possible there was a change in the fuel. Jonathan VanScoyoc of ChevronPhillips will check if there were any changes to the fuel. T-8 hardware batch information was not tracked but TEI will check on T-8 kits and hardware batches in them after labs report kit numbers to them. All the timing values will be summarized by TMC. Need to determine if those TMC-1005-4 runs are statistically similar to prior TMC1005-4 runs or if they are shifted. Pump number was also recorded. Are both SwRI and IAR having their T-8 pumps rebuilt at different locations eliminating that as a possible link.
- **Update from Humidity Task Force**  
Nick Secue is just waiting on some humidity readings from two labs. Three labs data reported looks pretty good. ExxonMobil has a specialist coming in by the end of Sept and should be able to provide data then. SwRI will have measurements by the end of the week.
- **Update about HD Fuels Task Force**  
Jim Matasic (Lubrizol) volunteered to lead the task force. Common fuels issues would be worked out through the fuels task force. The task force will address what kind of testing to verify equivalency for alternate fuel suppliers. At a future Surveillance Panel meeting we will discuss what would we require as to demonstrate equivalency in fuel as the Mack Surveillance Panel.
- **The outdated references in Annex A3 in the T-8 and other Mack test methods will be dealt with at a future meeting.**

#### **Old/New Business**

- **None**

**Other Business**

- None

**Next Meeting**

- **T-8 Follow-up call Monday Sept 12, 11:00 AM Eastern**
- **T-12 Follow-up call Wednesday October 5, 12:30 PM Eastern**

The Mack Surveillance Panel adjourned at 11:34 AM Eastern.

Respectfully submitted,

***Bob Salgueiro***

Industry Liaison Advisor

Infineum USA L.P. 1900 East Linden Avenue Linden NJ 07036 USA

Office: 908-474-2492 Fax: 908-474-3637 Mobile: 908-358-8742 E-mail: [Bob.Salgueiro@Infineum.com](mailto:Bob.Salgueiro@Infineum.com)



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