

**Cummins Surveillance Panel Teleconference
March 20, 2020 9:00 – 11:00 EDT**

Attendance:

Sean Moyer - TMC
Jim Matasic - LZ
Christian Porter, Bob Campbell - Afton
Jose Starling, Bob Warden - SwRI
Andrew Smith - Intertek
Mark Cooper, Marnix Torreman - Chevron Oronite
Dan Lanctot - TEI
Ryan Denton - Cummins
Elisa Santos, David Brass - Infineum
Prasad Tumati - Haltermann Solutions
Patrick Holmes –Volvo/Mack
Steve Jetter –Exxon Mobil
Ed Hennessy-
Jon VanScoyoc

Agenda:

1. ISM Reference Test Results Review

Meeting Minutes:

- 1. ISM Reference Test Results Review** – Elisa Santos started by sharing a presentation (attached) with further analysis of the data. Marnix gave an explanation of the high IAS wear result from his test. For crosshead mass loss Elisa's recommendation was to apply a CF of -2.2 mg (or eliminate altogether the +2.5 mg CF).

The discussion moved to the filter plugging CF and/or target updates. There was discussion about whether the CF was still valid because in 2014 it was indicated that there were only 40 filters left of the batch that warranted the CF in the first place. Dan Lanctot indicated we are still using the same batch from 2015 so it was decided that a target update for filter plugging was probably necessary due to the reference oil reblend.

For sludge rating the outlier tests from lab A and B will be excluded and targets adjusted for 830-3. It was decided to re-run the tests at lab A and B if possible.

For injector screw mass loss a decision was put on hold until the results of any re-run tests are available.

Meeting adjourned at 11:18 EDT.