

## Jeff Clark

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**From:** Jeff Clark

**Sent:** Tuesday, May 31, 2011 9:16 AM

**To:** Jeff Clark

**Subject:** Mack Surveillance Panel Teleconference Minutes - May 16 and May 18, 2011

### Corrections:

Michael Alessi from Exxon Mobil was present for both of these calls, and this was an inadvertently left off of the Attendees list for both meetings in the note below.

There was also considerable discussion over alternative methods concerning how correction factors function in the T-12 test. Some examples discussed included combining industry correction factors with lab severity adjustments and having the combined correction factor/severity adjustment updated each time a reference test is completed in a given test lab. Jim Rutherford will look at alternative methods for the T-12 test.

Mark

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#### Attendees – May 16

Zach Bishop (TEI), Doyle Boese (Infineum), Bob Campbell (Afton), Brad Carter (Intertek), Chris Castanien (Lubrizol), Jeff Clark (TMC), Mark Cooper (Oronite), Jim Gutzwiller (Infineum), Jim Matasic (Lubrizol), Jim Moritz (Intertek), Scott Richards (SwRI), Jim Rutherford (Oronite), Greg Shank (Mack)

#### Attendees – May 18

Zach Bishop (TEI), Doyle Boese (Infineum), Bob Campbell (Afton), Jeff Clark (TMC), Mark Cooper (Oronite), Jim Gutzwiller (Infineum), Jim Matasic (Lubrizol), Jim Moritz (Intertek), Scott Richards (SwRI), Jim Rutherford (Oronite), Greg Shank (Mack)

#### Updated Correction Factors for T-12 using STWN Hardware

Three additional operationally valid T-12 reference tests have been completed using STWN hardware. Additional reference test results are not currently projected until the fall of 2011. After some discussion a motion was made by Scott Richards and seconded by Greg Shank to update T-12 correction factors from reference test results with STVN/STWN hardware using the same hardware combinations by parameter approved at the April 5, 2011 teleconference (shown below).

11 STVN and STWN tests for liner wear, top ring weight loss, and oil consumption

7 STWN tests for Pb and Pb2

The surveillance panel wanted to look at the data before voting on the motion, so motion was tabled until the updated data could be distributed.

The data was distributed in the afternoon of May 16, and the motion was balloted by e-mail. However a small error was discovered in reported oil consumption for one of the tests, so the motion was balloted at the May 18 surveillance panel teleconference. The motion was approved with no negatives and one abstention. The correction factors shown below apply to all tests using STWN hardware that complete on or after May 19, 2011.

Liner Wear (CLW) 0.83

Top Ring Weight Loss (TRWL) 0.92  
Oil Consumption (OC) 0.95 (after converting to natural log)  
0-300 hour lead (Pb) 0.92 (after converting to natural log)  
250-300 hour lead (Pb2) 0.93 (after converting to natural log)

### **T-8 Mild Trend**

The T-8 test has been tending mild for some time and is currently in or near EWMA warning for mild severity for all parameters. Jim Rutherford agreed to do analysis to determine the magnitude of the correction factors. After some discussion the surveillance panel agreed the correction factors should return the test to 1998 severity level (around the time API CH-4 was introduced). The surveillance panel asked Jim Rutherford to estimate current severity based on reference oil data, possibly beginning around January 2009 based on cusum plots of reference oil data. The surveillance panel expressed a desire to review the data before the next teleconference. Analysis is targeted towards the end of the week of May 23.

The next teleconference is tentatively scheduled for May 31, from 11 AM-Noon Eastern time. Final day and time could change depending on when the analysis is available.

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