**ASTM D02.B0.07 MTEOS Surveillance Panel Teleconference Meeting Minutes**

The following is the minutes for the D02.B0.07 MTEOS Surveillance Panel Teleconference held on June 14th, 2013 starting at 11:00 AM EST.

**Purpose:** Discuss the high fail rate of Oil 432 for MTEOS and also to discuss potential causes to test severity/variability.

**The following participants called in:**

Angelina Chan The Lubrizol Corporation (Surveillance Panel Chair)

Udo Boecker ISP Salzbergen GMbH & Co. KG

Mark Cooper Chevron Oronite Company, LLC

Mary Dery BASF Corporation

Rick Hartman The Lubrizol Corporation

Yong-Li McFarland Southwest Research Institute

Greg Miiller Tannas Company

Matt Schlaff Intertek Automotive Research

Tom Schofield ASTM Test Monitoring Center

Ted Selby Savant Incorporated

Peng Wang PetroChina Lanzhou Lubricating Oil R&D Institute

Following roll call, Angelina Chan gave a brief introduction of the purpose of the meeting and what the attachments provided were.

Tom Schofield gave further explanation of the attachment containing the MTEOS statistical analysis. The analysis indicated there was a shift in severity due to the implementation of catalyst batch 1208 in November 2012. In addition to the severity shift caused by the catalyst batch change, the analysis also indicated there were significant lab and “lab-by-catalyst-batch interactions” differences.

Greg Miiller expressed that Tannas was well aware of the situation and had implemented more protocols on testing their new catalyst batch 1301. The protocols included blending the catalyst in a certain range and testing the catalyst in low (10-20mg), medium (30-40mg), and high (80+mg) depositing-forming fluids in addition to testing on TMC oils. These runs were tested on multiple units with various operators. Mary Dery suggested that the control charts and catalyst validation data be provided to the surveillance panel whether it be by email or through the Tannas website; Greg Miiller agreed it can be done.

Further in the discussion, Tom Schofield posed the question of whether Tannas had found any oil in the 35mg range that shifted severe. The reason for this concern was because the MTEOS pass/fail limit is 35mg and Tom Schofield was interested in the impact this may have caused on industry candidate samples. The answer was not readily available but Ted Selby mentioned that severity shift would not show in low deposit oils.

To correct the severity issue especially with its impact on severe TMC Oil 432, it was agreed that the group would stop the use of catalyst batch 1208 and immediately switch to catalyst batch 1301 for testing. The panel agreed. Greg Miiller offered that all labs with catalyst batch 1208 can send their catalyst back to Tannas to obtain a credit or exchange for the new catalyst batch 1301.

Angelina Chan mentioned that while the MTEOS analysis indicated the severity shift was due to catalyst batch change and this should be corrected with the new batch of catalyst, it would not resolve the lab differences seen in the analysis. Angelina Chan suggested that the MTEOS test parts, particularly the flask diameters and end cap diameters, may play a role in affecting test severity that may not be tracked by TMC. Udo Boecker also suggested that it may not just be the catalyst that was playing a role in severity and lab differences. The group further discussed the history of the test parts and the upcoming ILS involving a seal flask method which may improve test precision. Tom Schofield suggested that this ILS included TMC oils. Angelina Chan also suggested that the new revision of the MTEOS method should include specifications on test parts.

As a final comment, Rick Hartman suggested that when catalyst batches are changed, should there be a round robin to approve the batch. No labs expressed interest due to the time commitment needed for the approval process with so little MTEOS labs participating in TMC surveillance.

Action Items:

1. Tannas to provide catalyst control charts and catalyst validation to the TEOST surveillance panel either through email or by the Tannas website.
2. All labs to start using catalyst batch 1301 immediately upon availability.
3. For those interested in participating in the work group ILS involving the seal flask method, the meeting is to be held during the June ASTM conference in Montreal, Quebec, Canada on:

**Tuesday, June 25th in the Harricana Room on the Convention floor level at 4:00 PM EST (WK#37908)**

The teleconference was adjourned at 12:00 PM EST.