

**ASTM Section D02.B07
Engine Oil Volatility Test Surveillance Panel**

**Minutes of the Volatility Test Surveillance Panel Telecon
11:00-12:30 EST August 27, 2014**

Attendees for the telecon are listed below

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|---------------------|-------------------------------------|
| Dennis Gaal (Chair) | ExxonMobil Research and Engineering |
| Sheila Thompson | Afton |
| Tom Schofield | ASTM TMC |
| Cameron Toy | Chevron Global Lubricants |
| Michael Long | |
| Kaustav Sinha | Chevron Oronite |
| George Pickles | CITGO Petroleum Corporation |
| Robert Stockwell | General Motors Company |
| Joe Franklin | Intertek Automotive Research |
| Matthew Schlaff | |
| Raj Shah | Koehler Instrument Company, Inc. |
| Cindy Klager | |
| Sandra Chirk | PAC |
| Maggie Smerdon | Savant Incorporated |
| Jon Evans | |
| Mike Birke | Southwest Research Institute |
| Greg Miiller | Tannas Company |
| Greg Lentz | The Lubrizol Corporation |
| Danielle Ivancic | |
| Richard Ochenkowski | Valvoline |

The agenda for the telecon was

- Discussion on PDSC method for monitoring D5800 reference oils
- Request for D6417 reference oil candidates
- Request for volunteer to become SP chair
- Discussion on development of specified D5800 daily check oil from TMC
- Additional topics, as needed

Following roll call, Dennis Gaal reviewed the agenda in Attachment 1.

Discussion on PDSC method for monitoring D5800 reference oils

As discussed at earlier telecons, the new D5800 reference oils (VOLC12, VOLD12, and VOLE12) were evaluated in ASTM D6186@180°C and CEC L-85-99@210°C to determine if either test was suitable to monitor the oxidation stability of the oils. All three oils showed no break until 120 minutes or longer in both tests, meaning that the test methods at these conditions were not appropriate for sample monitoring.

As a result, Mike Birke donated ASTM D6186 tests run at 210°C and until the oil broke for the three reference oils. The results are listed below.

VOL12C: 39 minutes

VOL12D: 26 minutes

VOL12E: 27 minutes

Given these results, the chair recommended that the ASTM D6186 test run at 210°C be added to the annual schedule to monitor the three D5800 reference oils. A motion was made to accept this recommendation, which was seconded and passed unanimously.

Request for D6417 reference oil candidates

The SP was reminded of the previous work showing that the new D5800 reference oils did not show acceptable performance to serve as potential reference oils for D6417.

As a result, there is a standing request for D6417 reference oil candidates with targets of roughly 5%, 8%, and 11%.

While there was no discussion on candidates, it is intended that the GF-6 matrix oils will be checked as potential D6417 reference oils.

Request for future SP chair

Dennis Gaal informed the SP that he was volunteering to become chair of subcommittee B.07 beginning in June, 2015 and would need to step down as chair of the SP. Volunteers were requested who were interested in the chair position.

Mike Long recommended that a brief listing of expectations for the chair be developed and provided to the SP. Dennis Gaal accepted the recommendation and will develop this information.

Discussion on specific D5800B daily check oil

There has been significant discussion at various industry meetings on the value of TMC specifying a daily check oil for D5800B to create greater consistency in the industry as well as to have a more readily available daily reference oil in North America.

The SP continued their discussion on this possible work, first reconfirming the interest from the SP members to proceed with this development.

A number of topics around this work were discussed

- Requirement for TMC monitored labs to use this daily check oil for D5800B
- Use of a reblend of VOLD12 as the daily check oil
- Inclusion of results from TMC calibrated instruments only
- Inclusion of Procedure C instruments in the testing
- Instrument and RR information
- Completion of testing by mid-December
- Sale of the oil to non-TMC labs

A key point which was confirmed is that the results from this possible RR would not be used to update the precision statement in D5800, as the testing would be limited to TMC monitored instruments.

Also, the potential that the volume of the daily check oil would be consumed more quickly than anticipated with the sale of the oil to non-TMC monitored labs was discussed, with one possible option being that TMC would hold a certain volume of the oil in reserve for TMC monitored labs only.

Although there was general consensus on many of these topics, there were no votes on these details or to initiate the RR due to the length of the discussion.

Another telecon is scheduled for September 18th to discuss the details for the RR and have the SP vote on the various issues. Tom Schofield has provided a draft of the RR instructions for discussion, and Dennis Gaal will provide an outline of the voting items prior to the next telecon.

The telecon closed at 12:30 with Dennis Gaal thanking everyone for their participation.

Respectfully submitted on October 7, 2015

Dennis Gaal