

Minutes from 4/19/2011 Sequence VG Surveillance Panel Conference Call

Attendees:

Andrew Ritchie, Gordon Farnsworth, Mike McMillan, Doyle Boese – Infineum

Jo Martinez, Mark Sutherland – Chevron

Tom Wingfield – ChevronPhillips

Rich Grundza - TMC

Ron Romano – Ford

Bruce Matthews - GM

Jim Linden - Toyota

Raham Kirkwood, Bill Buscher – SwRI

Al Lopez – Intertek

Ed Altman, Dave Glaenzer, Bob Campbell – Afton

Jerry Brys, George Szappanos – Lubrizol

Mark Overaker, Wayne Petersen , Jim Carter – Haltermann

Timothy Caudill – Ashland

Jason Bowden, Mathew Bowden – OHT

Clayton Knight – TEI

- 1) The minutes from the April 12, 2011 conference call were approved with no additions or corrections. Motion made by Jason Bowden and seconded by Ed Altman.
- 2) Chairman Ritchie summarized the agenda for today's meeting. The main items to be discussed are the following:

- a. Status of the 925-3 test results which have been completed and reported to TMC
 - b. Status of plans for statisticians to analyze the results before the next scheduled VG call on Thursday, April 21
- 3) Chairman Ritchie indicated that TMC has put together a summary of the preliminary VG test results on Oil 925-3 with the reblended [batch ZC1821GP01] pilot blend of the new fuel batch (see attached), but that he would prefer to defer discussion of the results until after the Statistical Group has had a chance to provide its input. The Statistical Group [Doyle Boese, Jo Martinez, Alison Rajakumar, Todd Dvorak, Martin Chadwick, and Janet Buckingham] will convene by phone tomorrow to discuss the preliminary results and will be prepared to report the results of their analysis to the Panel during a conference call on Thursday, April 21. Chairman Ritchie asked each of the labs to provide comments on the VG tests just completed. Afton indicated their run had been very clean, with no issues. Lubrizol indicated they had encountered coolant temperature and flow issues that had to be resolved, but they believe it was a valid run. SwRI indicated they had encountered no issues. Intertek also indicated they had encountered no issues. Ron Romano asked if anything different had been done in conducting these 4 tests from what had been done in conducting the tests in the last fuel approval matrix. Responses indicated that the only changes made were to conform to the recommendations from the Precision Task Force, primarily using a 5/16" blowby orifice size.
- 4) Chairman Ritchie asked for some discussion of possible scenarios for moving forward after the Statistical Group's analysis is completed. Mark Overaker from Haltermann indicated he would suggest evaluating other oils with this revised fuel blend. This would require blending an additional quantity of the revised fuel blend, as essentially all of the initial pilot fuel batch was used in the current round of testing. Dave Glaenzer suggested running 4 tests on Oil 1009 to see if there is discrimination between Oils 925-3 and 1009, and if so, then the entire batch of the rejected fuel could be modified, and fuel approval matrix testing begun. There was some discussion as to whether we would be looking for a statistical difference between results from Oils 925-3 and 1009, or simply a directional difference. The consensus was that a directional difference in the proper direction, combined with results on Oil 1009 which were near target, would be sufficient, since we will be running a full fuel approval matrix on the large reblended batch in the end anyway. Mark further clarified that the small batch reblends as well as the change to the large batch would be made from the same blend components, so there is no reason to expect

there to be any difference in the composition of the large batch as compared to the small batch(es). It was decided to defer making a decision on how to proceed until after the Statistical Group report becomes available. Al Lopez and Jason Bowden further commented that, because results on Oil 1009 seem to be more variable than results on other oils, they believe it makes sense to run 4 tests (1 in each lab) on Oil 1009.

- 5) Bill Buscher raised the question as to when a face-to-face VG SP meeting might be scheduled. Bill indicated he would like to have a Sequence IVA meeting in conjunction with the VG meeting, and Dave Glaenzer indicated the Sequence IIIG Panel would also likely want to meet in conjunction with the VG meeting to discuss results from runs conducted following a unified engine build.
- 6) The next conference call will be Thursday, April 21 at 1:00 pm EST. The main topics will be a discussion of the Statistical Group's analysis of the VG test results, discussion of what steps to take next, and discussion of the possibility of scheduling a face-to-face VG SP meeting in the near future.

* Only the revised TMC file for the 925-3 results are attached.