

Minutes from 5/17/2011 Sequence VG Surveillance Panel Conference Call

Attendees:

Andrew Ritchie, Mike McMillan, Doyle Boese – Infineum

Jo Martinez – Chevron

Rich Grundza - TMC

Ron Romano – Ford

Raham Kirkwood, Bill Buscher – SwRI

Al Lopez – Intertek

Ed Altman, Bob Campbell, Todd Dvorak, Christian Porter, Dave Glaenger – Afton

Jerry Brys, George Szappanos, Alison Rajakumar – Lubrizol

Mark Overaker, Wayne Petersen, Jim Carter – Haltermann

Timothy Miranda, Irwin Goldblatt – BP Castrol

Jason Bowden, Mathew Bowden, Dwight Bowden – OHT

Clayton Knight, Zack Bishop – TEI

Thom Smith – Ashland/Valvoline

- 1) The minutes from the April 21, 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. Statisticians feedback on 4 1009 VG test results and assessment with previous 4 VG results on 925-3
 - b. Next steps and planning for defining a fuel approval matrix

c. Other New Business

- 3) Jo Martinez presented the report from the Statistical Group on the analysis of the VG data obtained on Oils 925-3 and 1009 (see attached). The analysis found that there was not enough statistical evidence that the fuel batch utilized in the development of the targets and the one just tested (Batch # ZD2821GP01) are different in the evaluation of Oil 1009, nor that the lab results are different. With regard to discrimination between Oils 925-3 and 1009, significant discrimination was found between Oil 1009 and Oil 925-3 for AES and RAC across labs (p-values=0.01 and 0.003, respectively), but there was not enough evidence of discrimination (although the results were directionally correct) between Oil 1009 and Oil 925-3 for AEV, APV and LnOSCR1 across labs (p-values=0.30, 0.21 and 0.08, respectively). When the target data and that from the two recent adjusted fuel batches were considered, it was found that significant discrimination exists between Oil 1009 and Oil 925-3 for all parameters across fuel batches and labs (p-values < 0.0001).
- 4) Based on the analysis, the Statistical Group recommended the use of the current fuel blend composition for the Fuel Approval Matrix. Mark Overaker from Haltermann indicated that, if the VG Panel wished to move in this direction, they could use the same components as used in the small blends to blend the large batch of remaining VG fuel and complete the fuel blending by about May 31.
- 5) Ron Romano made a motion to ask Haltermann to blend the large batch of VG fuel as indicated in item #4 above. Ed Altman seconded the motion. Irwin Goldblatt asked whether anyone was concerned about the lack of discrimination in AEV for Oils 925-3 and 1009 in the testing. Doyle Boese responded that one data point increased the variability and probably affected the ability to discriminate. Following further discussion, the question was called. The resulting vote was 11 Affirmative, 0 Negatives, and 1 Waive, so the motion passed.
- 6) Chairman Ritchie suggested that the conference call previously scheduled for Friday, May 20, be cancelled, and that the next call be convened on Tuesday, May 24, to discuss the fuel approval matrix to be proposed by the Statistical Group. The plan would be for the Panel to make a decision on the fuel approval matrix, either during the May 24 conference call, or at the face-to-face VG Panel meeting scheduled for June 1.
- 7) Bill Buscher asked whether the tests to be run in the Fuel Approval Matrix could be used to obtain stand calibration in the various labs. Rich Grundza expressed concern about a lab going back to the "old" approved fuel after

running tests on the new VG fuel. In addition, a lab would have to declare its intent to use a test for calibration purposes in advance of the testing. Rich indicated that TMC would consider this request and respond following contact with the labs requesting this action.

- 8) Todd Dvorak asked how many oils should be considered in the Statistical Group's proposed matrix test design. After further discussion, it was agreed that 3 oils should be included. It was noted that this decision could impact calibration requests.
- 9) Al Lopez asked if the recipe for the fuel used in the pilot fuel blends could be filed with TMC so that it could be retrieved later if necessary. Rich Grundza indicated that TMC would be willing to do this, and that he would get in contact with Haltermann to discuss what would be required for Haltermann to provide this information to TMC.
- 10) The next conference call will be Tuesday, May 24, at 2:00 pm EST to review the proposed Fuel Matrix Test proposal and the status of the blending of the large fuel batch by Haltermann.