

Unapproved Minutes of the April 9, 2013  
Sequence VG Surveillance Panel  
Conference Call

The meeting was called to order by Chairman Andy Ritchie at 2:00 PM EST.

A list of the attendees on the call is included as Attachment 1.

Chairman Ritchie listed the agenda items he would like to cover in this call:

- 1) Review and approval of minutes from March 12 and March 5, 2013 calls
- 2) Discussion of results from initial VG testing of Pilot Batch No BC1821GP10
- 3) Discussion of plans for adjusting full Batch No. AK2821NX10 fuel
- 4) Timeline for future testing
- 5) Old Business.
- 6) New Business.
- 7) Next Meeting

Chairman Ritchie asked if there were any further corrections to the minutes from the March 5, 2013 VG Panel conference call. There being none, Ed Altman made a motion to approve the minutes. Matthew Bowden seconded the motion. The motion was approved unanimously. Chairman Ritchie asked if there were any corrections to the minutes from the March 12, 2013 VG Panel conference call. There being none, Ed Altman made a motion to approve those minutes. Matthew Bowden again seconded the motion. The motion was approved unanimously.

Chairman Ritchie summarized the events which have occurred since the March 12 conference call. Three VG tests have been completed on Oil 925-3 using a pilot batch of rebled fuel from Batch No. AK2821NX10. Rich Grundza distributed a plot comparing the average results from these three runs with the targets for the various test parameters. That plot is included as Attachment 2. AES is mild by about  $\frac{3}{4}$  s; AEV is highly variable but on target; APV data look reasonable; OSCR data are about  $\frac{1}{2}$  s severe. One lab (D) currently has a correction factor for RAC and AEV which has been taken into account. Ed Altman questioned the AEV variability, but with

only 3 results to date it was agreed that more data are needed before drawing too many conclusions.

There was considerable discussion as to how to proceed from here. The Panel members concurred that, with AES results falling within the range of acceptability, we should proceed with reblending the entire remaining amount of Batch AK2821NX10 fuel. However, there were a number of suggestions as to which reference oils to run in which labs next. Chairman Ritchie had distributed the original fuel approval matrix design generated by the Statistical Group as follows:

Lab	A		G		D
Stand	1	2	1	2	1
Run 1*	1009	925-3	925-3	1009	925-3
Run 2*	925-3	925-3	1009	1009	1009
Run 3	1006-2	1009	1006-2	925-3	1006-2

Several Panel members favored proceeding with Row 2 of the matrix, while some favored repeating the three 925-3 runs in Row 1 first. Others expressed concern about running Oil 925-3 in only one lab in Row 2. After much discussion, Ron Romano proposed that the above table be modified as shown below (modifications highlighted in Yellow), and that the modified Row 2 be run first, followed by the modified Row 3, and then the two 1009 runs (highlighted in Red) in Row 1.

Lab	A		G		D
Stand	1	2	1	2	1
Run 1*	1009	925-3	925-3	1009	925-3
Run 2*	925-3	1009	1009	925-3	1009
Run 3	1006-2	925-3	1006-2	1009	1006-2

Chairman Ritchie asked whether there were any objections to this proposal, and there being none, it was agreed that this would be the path forward in approving the fuel matrix.

Chairman Ritchie asked Haltermann for input on the timing for initiating further testing. Mark Overaker responded that adjustments to the large fuel batch could be made this week, and that modified fuel could be shipped to the labs early next week. In further discussion it was agreed it is unlikely that testing with the modified fuel could begin before April 22, so that completion of Row 2 testing would not occur until late in the week of April 29. With that input, Chairman Ritchie suggested that the Panel tentatively plan for the next conference call to be Friday, May 2. Ed Altman asked whether Haltermann was planning to pick up the remaining quantities of pilot batch fuel from the labs; Mark indicated he would make plans to do so.

Old Business: Rich Grundza reminded the Panel that he had circulated the results of a survey of the labs he had conducted of how much of the currently approved VG fuel they had remaining. Rich's survey showed that there is cumulatively enough currently approved VG fuel remaining to conduct between 4 and 20 VG tests. With regard to the fuel approval matrix, Ed Altman questioned whether the labs had adequate supplies of reference oils to complete the matrix; Rich replied that earlier this year he had distributed sufficient supplies of the reference oils to the labs for that purpose.

New Business: None

Next Meeting: Based on the preceding discussion of timing, Chairman Ritchie again asked the Panel members to tentatively plan for the next VG Panel conference call to be Friday, May 2, 2013 at 2:00 PM ET.

## **Attachment 1**

### **Attendees during 4/9/2013 Sequence VG Surveillance Panel Call**

Ashland - Timothy Caudill

Afton – Ed Altman

Ford - Ron Romano

General Motors – Bruce Matthews

Haltermann – Mark Overaker

Infineum – Andy Ritchie, Mike McMillan, Gordon Farnsworth

Intertek – Al Lopez

OHT – Matthew Bowden

Oronite– Jo Martinez

SwRI – Raham Kirkwood, Bill Buscher

TEI – Mark Sutherland

TMC – Rich Grundza

Toyota – Jim Linden

# Comparison of Fuel Batch results to Targets

Attachment 2

