

**C13 Surveillance Panel**  
OF  
ASTM D02.B0.02  
June 18, 2007  
Loews Miami Beach Hotel, Miami Beach, FL

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**ACTION ITEMS**

1. **CAT discuss completing the Research Report**
  2. **Surveillance Panel conduct conference call to discuss a reference oil target update.**
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**MINUTES**

- 1.0 Call to order
  - 1.1 The C13 Surveillance Panel was called to order by Chairman Jim Gutzwiller at 10:05 a.m. on Monday, June 18, 2007, in the Poinciana 2 Room of the Loews Miami Beach Hotel, Miami Beach, FL.
  - 1.2 There were 10 members present and 16 guests present. The attendance list is shown as Attachment 2.
- 2.0 Agenda
  - 2.1 The agenda is included as Attachment 1.
- 3.0 Minutes
  - 3.1 The minutes from the January 24, 2007 meeting and the February 9, 2007 and the May 11, 2007 conference calls were approved as written.
- 4.0 Membership
  - 4.1 There were no membership changes. Phil Spengler represented CAT.
- 5.0 Scope and Objectives
  - 5.1 Phil Spengler will take a message to Hind to discuss completing the ASTM research report.
- 6.0 Ring Rating Workshop Report
  - 6.1 Elisa Santos completed an analysis of the 2007 rating workshop but could not attend the meeting. Jim Gutzwiller presented her analysis. See Attachment 3. Workshops from 2006 and 2007 were analyzed. The deposits on the rings change slightly over long periods of time, so rings from the first workshop were not used for the second workshop.
  - 6.2 Conclusions suggest that variability increases with demerits magnitude. It is unlikely that variability has not changed from one year to the other. Jim Rutherford asked about the variability in the same performance region. Further analysis suggests that variability is reduced in 2007 compared to 2006 for deposits in the same region. Rater precision seemed to improve during the 2007 workshop. Two ring sets were rated by everyone the

first day and results shown to all. Raters discussed among themselves the various rating levels, then the same rings were coded differently and rated again. The precision improved as a result of discussion and agreement between raters. The improvement may not be statistically significant. The data suggest that there is a rater effect. The likely variation between raters is +/- 2.4 demerits. Some questions have not been addressed yet.

- 6.3 Jim McCord asked whether rubbed carbon and polished carbon are rated the same as heavy carbon or not and if that accounts for the increased variability at higher deposit levels. The CRC manual defines heavy carbon as carbon making contact whether it is rubbed or polished.
- 7.0 Parts Supplier Report
  - 7.1 No parts issues at this time. There is a one and a half to two year supply of C13 liners at this time.
- 8.0 TMC Report
  - 8.1 Jeff Clark presented the TMC report. See Attachment 4. C13 reference test activity is low; 3 calibrated labs with 5 calibrated stands. Reference oil 831 (PC-10B) has been exhausted. The TMC is waiting on a re-blend. 15 tests exist in the database on this oil, but some of those are from a lab that never calibrated and some other runs are "large impact tests". Jeff suggests a more thorough Surveillance Panel review before updating targets. Values were shown for all 15 tests, 14 tests from calibrated labs, and 13 tests removing one test that was very severe for R2TC. The delivery of the re-blend is unknown at this time. A re-blend is supposed to be delivered.
  - 8.2 Chairman Gutzwiller suggests that further analysis be performed and a conference call held to decide on a reference oil target update.
- 9.0 Oil Consumption Delta Calculation
  - 9.1 A question was raised on a previous conference call about what to do with a negative oil consumption value. The result is a square root transformation for the application of any potential industry correction factors. Several suggested techniques were proposed. Mark Sutherland **moved** that for negative OC deltas, the transformed values be blanked out and the same negative value be shown as the final value. Jim McCord seconded. The **motion carried** by voice vote.
- 10.0 Inlet Air Pressure
  - 10.1 Some labs on low barometer days run below the 93 kPa setpoint. When that was set-up, it was agreed to review that setpoint. The intent is to run at 93, but the panel recognizes that on low barometer days, the inlet air pressure may drop below 93. On high barometer days, the labs should trouble shoot low inlet air pressure conditions.
- 11.0 Other Business
  - 11.1 Labs have had trouble getting fuel. One lab that uses rail cars has had much trouble getting fuel; having to wait months. The perception is that fuel delivery is getting worse. The situation exists for both PC-9 and PC-10 fuel. The HDEOCP will be notified. Labs have had to delay starts to know that fuel was on the way.
- 12.0 Next meetings
  - 12.1 A conference call will be set up to further discuss ring rating workshop analyses and reference oil target updates.
- 13.0 The meeting was adjourned at 11:20 am.