

# Caterpillar Surveillance Panel

## Conference Call 06/30/2015 1:00PM CST

---

### Attendance:

Jim Gutzwiller  
Martin Thompson  
Jim McCord  
Mark Cooper  
Gary Hammer  
Mark Jarrett  
Hind Abi-Akar  
Bob Salguero  
Elisa Santos  
Christian porter  
Sean Moyer  
Andrew Stevens  
Pat Fetterman  
Adam Roig  
Jim Rutherford

### Agenda Items:

Update on 1P reference tests running with the "NEW" liners

CAT O&H Sub-group report/findings:

- 1Y540 - Oil Pump
- 1Y540 - Water Pump
- 1Y540 - Coolant Heat Exchanger
- 1Y3700 - Timing Sensor
- COAT - Oil Pan Seal

CATC13 Supplemental Measurements

### Old Business:

### Discussion Items:

---

#### 1P cylinder liner prove out

SwRI will be running a 1P reference on the new liners, however the liners have not been received and there would be a significant delay in waiting for a fourth data point.

The motion from the previous conference call on 6/11/2015 approved reviewing the results from only 3 data points.

Jim Rutherford pointed out that “4” is not the same as “3”.

IAR should complete their reference by 7/1. Lubrizol should complete their reference by 7/9.

SwRI will begin their reference as soon as a liner is received.

---

### **CAT O&H Sub- Group Report/findings:**

- 1Y540 - Oil Pump
- 1Y540 - Water Pump
- 1Y540 - Coolant Heat Exchanger
- 1Y3700 - Timing Sensor
- COAT - Oil Pan Seal

### **1P Coolant Circuit**

CAT presented SCOTE Hardware Updates “SCOTE Parts update 6-30-15.ppt”

The O&H panel recommends moving to allowing the use of an electric motor driven pump and alternative heat exchanger described in “SCOTE Parts update 6-30-15.ppt” or any alternatives that meet the specified requirements for coolant operating parameters.

Adam Roig will put together the recommended procedure changes for a motion at the next surveillance panel conference call.

### **1K/1N Oil Pump**

This pump (1Y0667) is available from CAT but it is a Made-to-Order (MTO) part. The rebuild kits will no longer be made, only complete pumps will be made.

CAT recommends the labs place orders soon to supply the foreseeable future to keep costs low when multiple pumps are ordered.

SwRI will need 5, IAR will need 6, Afton will need 3 and Lubrizol will need 5. CAT will communicate this volume to the supplier to expect these orders soon.

### **Other 1K/1N Parts**

Several other 1K/1N parts are available MTO. These parts may not show up in inventories but are still available.

### **1P Crankshaft Assembly**

These parts (1Y3736) are not available. CAT will be investigating rebuilding aged parts or getting a new supplier for making machined crankshaft assemblies.

Machined crankshafts may have significant differences and would be a significant undertaking. CAT will begin investigating this option.

### **COAT C13 Oil Pan and Valve Cover solutions**

The fiber gaskets will be available in 2-3 months from CAT. The metal spacer print will be made available to the labs to be made in house. A high volume of gaskets will be made to insure availability long into the future.

### **C13 Liner Identification**

Serial identification of C13 liners will be improved with the methods described in "SCOTE Parts update 6-30-15.ppt"

---

### **C13 Supplemental Measurements:**

SwRI, IAR and Lubrizol have met over the last several months to discuss adding several measurements to the C13 test to help identify items that may influence oil consumption on tests with good deposit performance.

A procedure for the recommended measurements will be included with the meeting minutes from this call. This procedure will be reviewed during the next conference call and it will be requested that it is posted to the TMC webpage as a CAT SP controlled document that labs can reference.