**PC 11 Oxidation/Nitration Task Force**

**Performance Improvement from CJ 4**

**Teleconference October 1, 2012**

**11:00am EST**

 **Attendance:**

Greg Shank (Volvo), Allison Athey (Volvo), Chris Castanien (Lubrizol), Gail Evans (Lubrizol), Zack Bishop (TEI), Ken Chao (John Deere), Steve Kennedy (ExxonMobil), Bob Salguerio (Infineum), Pat Fetterman (Infineum), Mark Sutherland (Chevron Oronite), Jerry Wang (Chevron Oronite), Ellen Hock (Dow), Joe Franklin (Intertek), Jim Moritz (Intertek), Hind Abi-akar (Catepillar), Addison Schweitzer (SwRI), Scott Richards (SwRI), Dan Arcy (Shell), Mike Hoey (BASF), Jason Lagona (Afton)

**Objectives:**

Oxidation improvement for PC-11 over CJ-4 requested. Nitration levels in field have increased. Looking at both parameters for performance improvement. Unclear if nitration is an issue.

**Possible Tests:**

T13- Looking at wear portion, measuring oxidation (FTIR peak height), looking at Pb leached from bearings. Determine by end of year if the wear/oxidation test replace the T12 or just oxidation alone. Nitration numbers are lower.

ROBO- EMA members are sending HDEO to be run in the ROBO. 15w40 and 10w30 oils are being run. Expect report on industry on findings in Dec. PC-11 meeting.

ACEA Glassware Test- CEC will develop test end of 2013, run with some type of biodiesel, possible also for biodiesel compatibility.

Cat Oxidation/Nitration Test- Accelerate oxidation using 140c oil temp, change blow-by. Test will be 200 hours or less. Looking at oxidation, nitration, wear metals, and lead. 1st test started late last week. Will see results soon. No target nitration/oxidation will wait until they see first test results.

Chrysler Oxidation Test for GF-6- Shakedown and mapping this week, 100 hour test. Should meet proposed time line Q3 2013.

GM Oxidation Test for GF-6- No update. There is a request in for TMC to monitor test like they do ASTM tests. This will be decided in the next few months.

**Future Plans:**

Would like to have a face to face meeting at ASTM before DEOAP. Will review data from T-13, ROBO, and Cat Oxidation/Nitration Test by December meeting.

 **Next Meeting-**

Monday Nov 6th Teleconference 11 a. m. EST