**PC 11 Oxidation/Nitration Task Force**

**Performance Improvement from CJ 4**

**Teleconference August 7th**

**2:00 pm EST**

 **Attendance:**

Greg Shank (Volvo), Allison Athey (Volvo), John Loop (Lubrizol), Chris Castanien (Lubrizol), Gail Evans (Lubrizol), Jeff Clark (TMC), Sean Moyer (TMC), Zack Bishop (TEI), Dan Arcy (Shell), Luc Girard (Petro-Canada), Darryl Purificati (Petro-Canada), Mike Alessi (ExxonMobil), Steve Kennedy (ExxonMobil), Heather DeBaun (Navistar), Bob Salguerio (Infineum), Pat Fetterman (Infineum), Ying Yang (Valvoline), Ellen Hock (Dow), David Lee (Chevron Lubricants), Mark Sutherland (Chevron Oronite), Mark Cooper (Chevron Oronite), Michael Hoey (BASF), Addison Schweitzer (SwRI), Scott Richards (SwRI), Joe Franklin (Intertek), Jim Moritz (Intertek), Mesfin Belay (Detroit Diesel), Ken Chao (John Deere

**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:**

GM Oxidation Test for GF-6

T13

ROBO

ACEA Glassware Test

Cat Oxidation/Nitration Test

Chrysler Oxidation Test for GF-6

**Task Forces:**

Created small Task Forces to evaluate the 6 tests and measurement methods. Want to look at the same oils in all of the tests for a direct comparison.

**GM Oxidation Test for GF-6**

**Action Item-**  Greg Shank will get an update from Robert Stockwell.

**T13** –Mike Alessi and Greg Shank

High numbers peak oxidation 50-70 range. PDSC measurement (the standard ACEA CEC L85 method). They will have more data by next meeting to group, and more on nitration as well.

**ROBO**

**Action Item**-Having heavy duty oils tested in ROBO blind from EMA members and will then compare that data to 3G. Wk 38 (Sept 18-21) data hopefully available

**ACEA Glassware Test-** Joe Franklin/Chris Castanien/ John Loop/Bengt Otterholm

**Action Item**-Greg Shank will setup a call for next week.

**Cat Oxidation/Nitration Test** – Based on the 1P

**Action Item** – Greg Shank will contact CAT for an update.

**Chrysler Oxidation Test for GF-6** -Mark Southerland

**Action Item**- Mark will report what can be shared from Chrysler.

**Analysis Method-** Joe Franklin

**Action Item**-Will look at FTIR peak, area, and PDSC. Will lead methods group to look into measurements for oxidation and nitration.

 **Next Meeting-**

Monday Sept 17th Teleconference 2p.m. EST