### **Shear Stability Task Group**

### February 26, 2013 Teleconference

### **Meeting Minutes**

Attendees:

Andrew Wong X
Mike Covitch X
John Loop X
Heather DeBaun X
Pat Fetterman X
Jim Linden X
Shawn Whitacre X
Mary DeryX
Jaimie Daash (Valvoline) X
Sean Moyer X
Mike Birke X
Jason Anderson X
Roger Gault X
Eric JohnsonX
Carrie Sims X
Mesfin BelayX
Field test update: all 10 trucks are on test and samples are expected soon. Still on track to complete one drain before the June D02 meeting. The HTHS of used oils will be tested during the test.

of the information.

The group reviewed data that supported the field performance claims of each of the 5 test oils. The

OEM after shear test requirements? Roger can ask the lube committee next week as to the availability

HTHS cannot be tested in samples after KRL but could be done after the KO.

The group reviewed data that supported the field performance claims of each of the 5 test oils. The group requested test cycle and soot content from the first Navistar data set. Per Shawn Whitacre, the Cummins test data is from one drain interval at 700 hours which is the drain interval for this

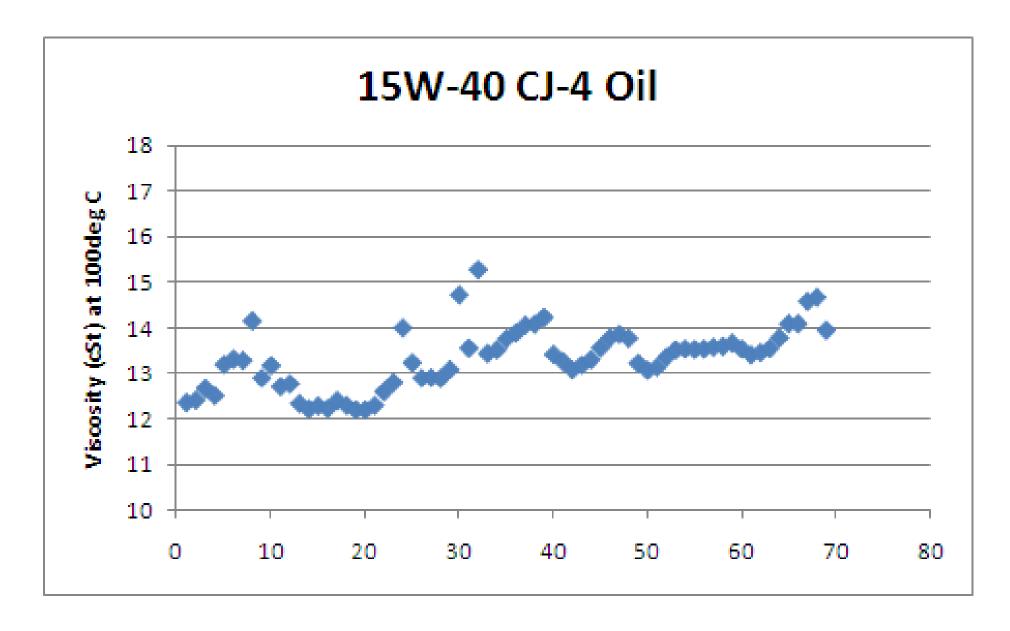
application. The viscosity trend is repeatable in this application. Fuel dilution was measured by gas chromatography and soot by FTIR.

Next meeting: April 15th at 1:00pm Central

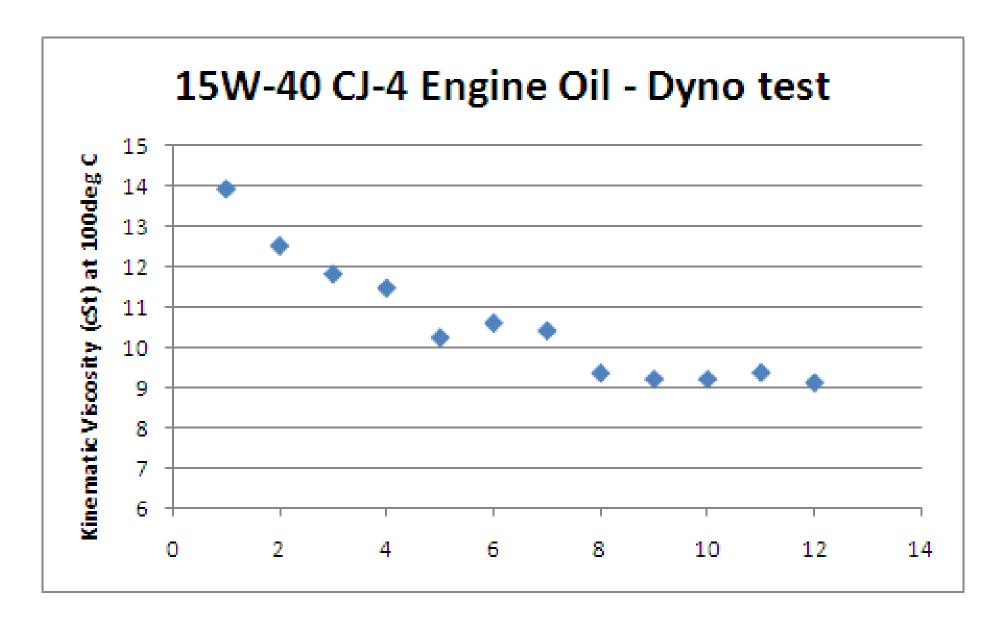
## Shear test candidates

Navistar

April 2012

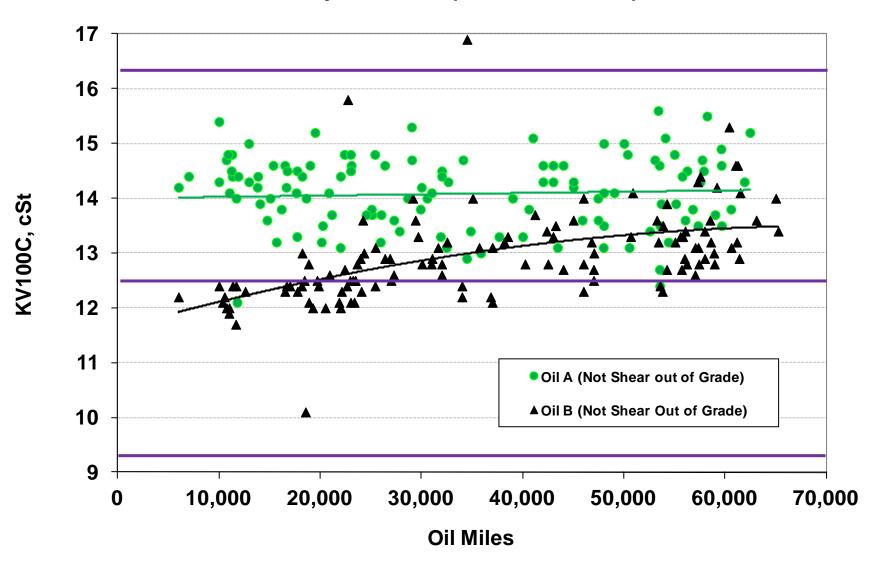


Navistar Test Vehicle running engine oil A with a fresh oil viscosity of ~15.5cSt. Fuel dilution is minimal for these samples. Data contains several oil changes.

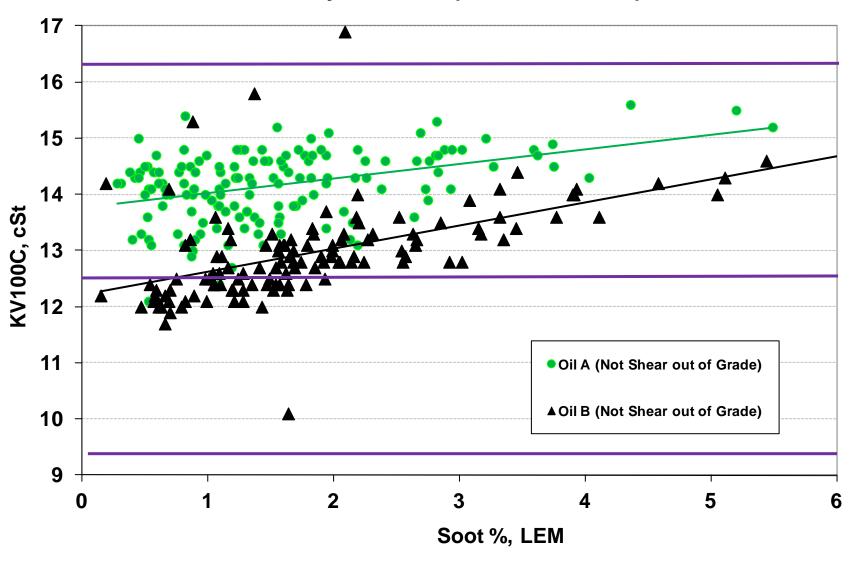


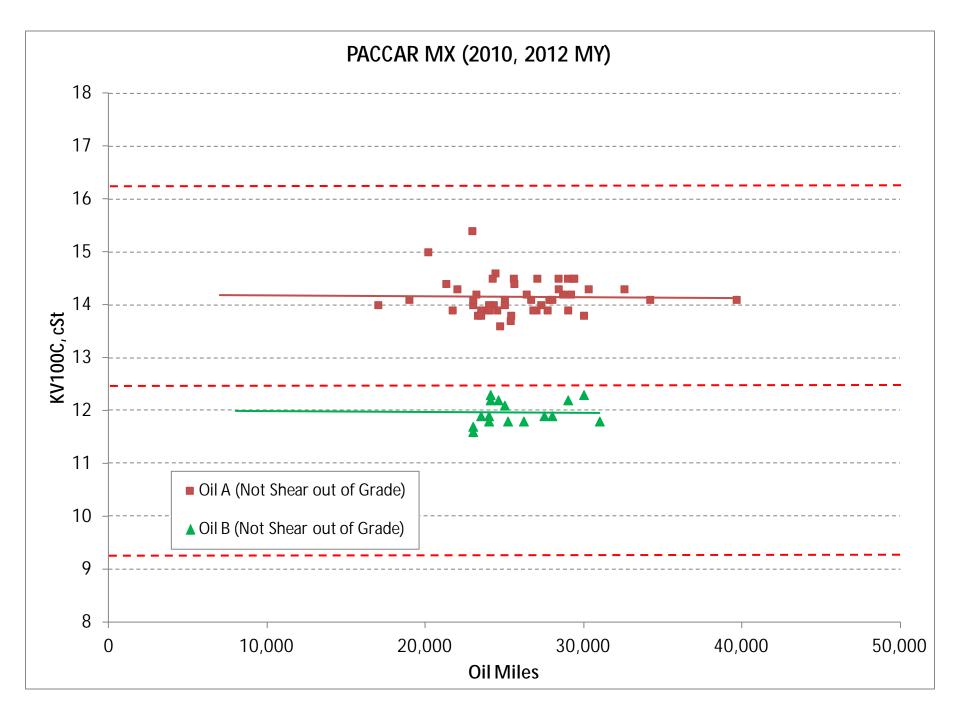
Navistar Test Engine running engine oil B with a fresh oil viscosity of ~15.5cSt. Fuel dilution is minimal for these samples. Data contains one drain interval.

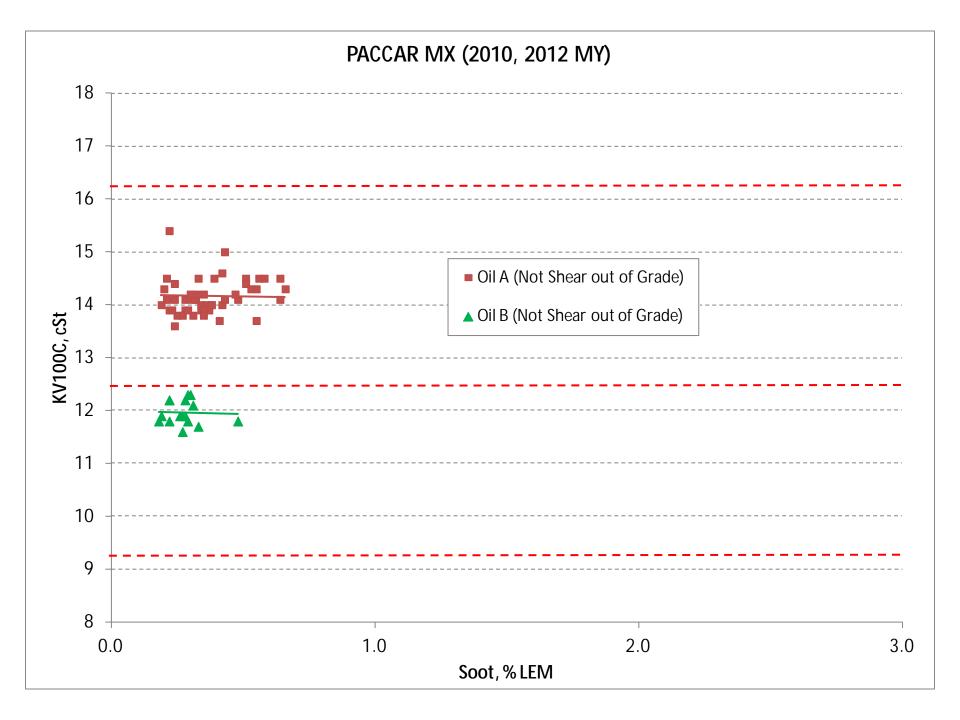
### Viscosity in DD15 (2008/2009 MY)

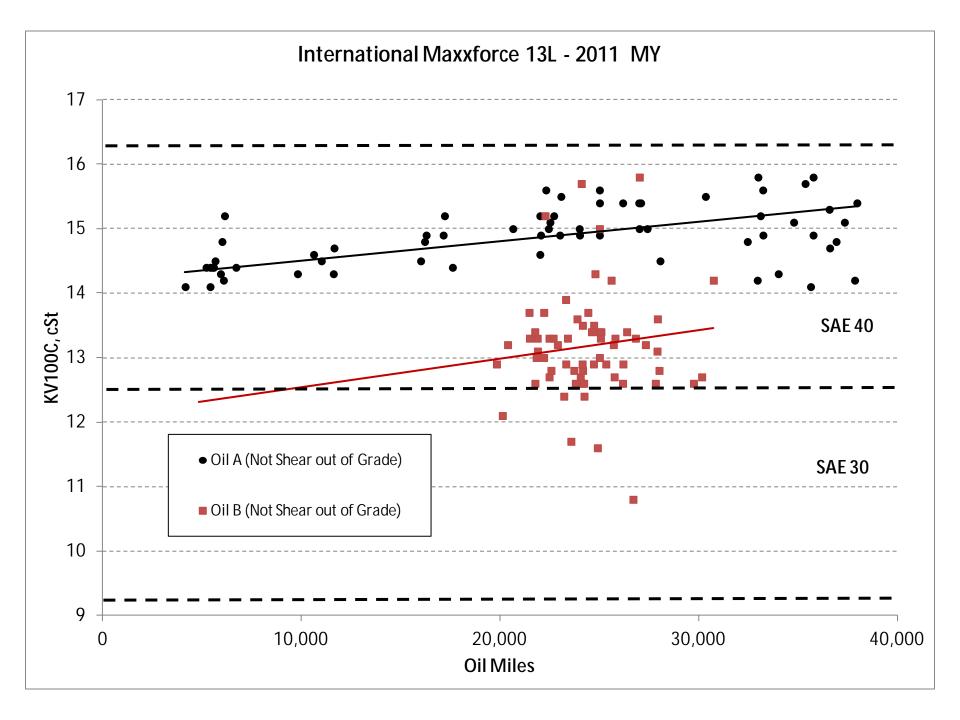


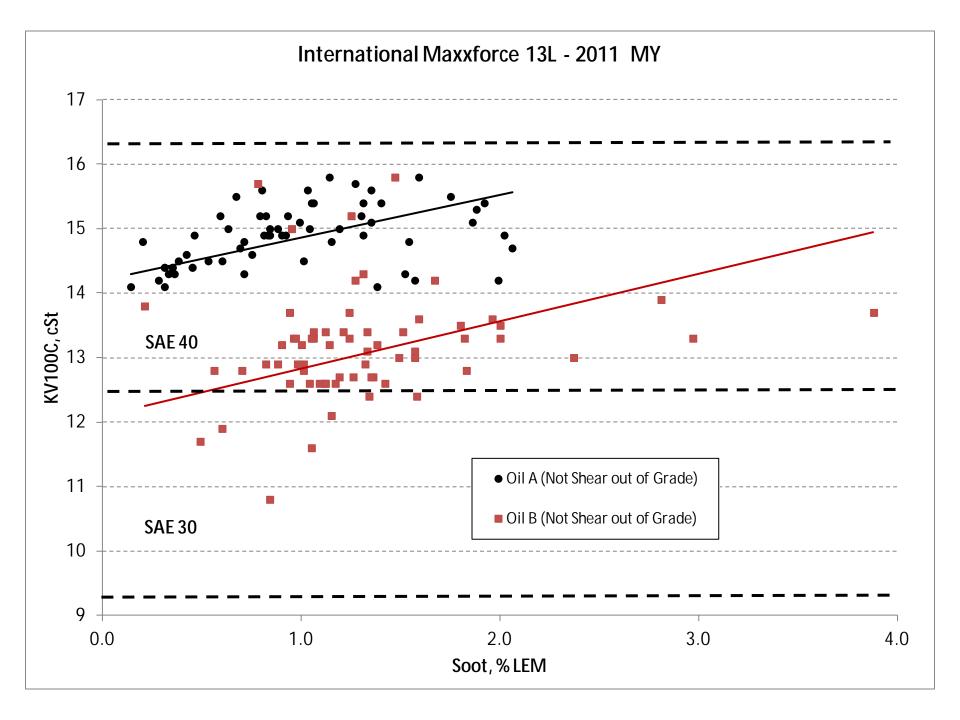
## **Soot/Viscosity in DD15 (2008/2009 MY)**











# Cummins Example

- Field test engine
- Midrange product (6.7L displacement)
- Off-highway application
- API CJ-4 15W-40 CES
   20081
- No fuel dilution
- No soot

