

Shear Stability Task Group

January 26, 2012 Teleconference

Meeting Minutes

Attendees:

Bob Duggal

Carrie Sims

John Loop

Mike Covitch

Roger Gault

Doyle Base

Allison Athey

Kwame Duho

Bob Salgueiro

Pat Fetterman

Heather DeBaun

Chris Castanien

The group discuss the purpose of the Shear Stability Task group and decided it is to find a more representative test for shear stability. The Navistar data of shearing was reviewed and the group desired more field data.

From an EMA perspective, Roger Gault stated that it was believed that viscosity decline would level off after the 90 passes in the shear test. The Navistar presentation shows that this is not the case for all oils. He also indicated that there are customer complaints of viscosity being out of grade, which causes the customer to change the oil more frequently than necessary or suspect fuel dilution.

Mike Covitch indicated that he authored an SAE paper that showed 15W-40 viscosity will plateau over 90 passes depending on the viscosity modifier. Some oils will continue to shear. The paper is: 982638, "How Polymer Architecture Affects Permanent Viscosity Loss of Multigrade Lubricants".

The group discussed if the shearing is a problem. It can be a perception issue, causing customers to suspect fuel dilution. Some have complained of low pressure warnings from sheared oil. EMA is not aware of lubricant system failure due to sheared oil.

EMA member companies will be asked for data showing the sheared oil. The request will include:

- For oils that have shown data shearing out of grade, the team would like to collect 20-30 gallons of the fresh oil as well as the viscosity data.
- Oils that do not shear out of grade.
- Also include 10W-30, 5W-30, etc and not just 15W-40

TMC can be used to distribute the oil and the team can identify a lab for testing.

Bob Salgueiro offered to compile a list of shear tests that are available.

Next meeting: 3/1/12 at 2pm CST by teleconference

Plan to meet in person at the June D02 meeting.