Symposium on Viscosity & Rheology of In-Service Fluids as They Pertain to Condition Monitoring

Sponsored by ASTM Committee D02 Petroleum Products and Lubricants

June 27, 2012
Hilton San Francisco
San Francisco, CA, USA

Symposium Chairs:  
Amy Rishell  
Lubrication Engineers, Inc.  
Wichita, KS, USA

Symposium Vice-Chairs:  
Dave Turner  
Shell Global Solutions  
Houston, TX, USA

Theodore Selby  
Savant Inc  
Midland, MI, USA

WEDNESDAY, JUNE 27, 2012

ABOUT THE SYMPOSIUM
A Symposium on Viscosity & Rheology of In-Service Fluids as They Pertain to Condition Monitoring, will be held Wednesday June 27, 2012. Sponsored by ASTM Committee D02 on Petroleum Products and Lubricants, the symposium will be held at the Hilton San Francisco in San Francisco, CA, in conjunction with the June standards development meetings of Committee D02.

Session presentations and papers will reflect the future direction and suggest new standards for Viscosity & Rheology within CS96 to investigate.

- To provide future direction, & suggest new standards for Viscosity & Rheology within CS96
- Investigate new technologies applicable to Viscosity & Rheology within CS96
- Direction of Viscosity & Rheology within CS96 – are we on the right track
- Impact of ASTM Standards on condition monitoring business worldwide
- Expand participation in ASTM

The general objective of the symposium is to hold a technical forum for presentations and discussions related to current research and practices relating to viscosity/rheology of in-service fluids as it pertains to condition monitoring and the impact of ASTM standards on condition monitoring and associated businesses. The forum will also provide future direction and suggest new standards for CS96 to investigate.
WEDNESDAY, JUNE 27, 2012

8:15AM
**Opening Remarks**
Amy Rishell, Symposium Chair, Lubrication Engineers, Inc, Wichita, KS, USA

8:20AM
**Keynote Speaker**
Theodore Selby, Savant, Midland MI, USA

8:45 AM
**Grease Working and its Role in Consistency Trending**
Evan Bupp, MRG Laboratories, York, PA, USA

9:10 AM
**Determining Possible Impact of In Service Grease Mixtures with a Stress Rheometer as Element of a Predictive Maintenance Program**
Bryan Johnson, Arizona Public Service, Tonopah, AZ, USA

9:45AM  BREAK

10:20 AM
**Grease Analyses - Shear Viscosity and Yield Point according to DIN 51810-1, 2**
Thomas Fischer, OELCHECK GmbH, Brannenburg, Germany

10:45 AM
**Die Extrusion Method for Comparing Changes in Grease Consistency and Flow Characteristics**
Lisa Williams, MRG Laboratories, York, PA, USA

11:10 AM
**The Application of sensors for in-situ Measurements of in-service Greases Rheology**
Evan Bupp, MRG Laboratories, York, PA, USA

11:35 AM
**Used Grease Analysis - Bleeding Characteristics**
Thomas Fischer, OELCHECK GmbH, Brannenburg, Germany

12:00N LUNCH (On Your Own)

1:30 PM
**Start-up Viscosity of In-Service Engine Oils at Low-Temperatures**
Amy Rishell, Lubrication Engineers, Inc., Wichita, KS, USA

1:55 PM
**Rheological Property Measurements of Newtonian and Non-Newtonian Fluids with the Falling Needle Viscometer**
Noh Park, Stony Brook Scientific Ltd., Norristown, PA, USA
2:20 PM
Hand-Portable Kinematic Viscometer
Patrick Henning, Spectro, Inc., Litteton, MA, USA

2:45 PM BREAK

3:20 PM
Fresh to Sooted Oil Analyses Utilizing High Temperature High Shear Technology
Greg Miiller, Tannas Company, Midland MI, USA

4:20 PM
The Use of Routine Low Temperature Viscosity Measurement to Prevent Sudden Transformer Failure upon Very Cold Startup
David Grant, Manitoba Hydro, Winnipeg, Manitoba, Canada

4:45 PM
Standard Test Method ASTM D7042-11 a New Milestone in the Viscosity Measurements
Franz Novotny-Farkas, OMV Refining & Marketing, Competence Center Lubes, Vienna, Austria

5:10 PM
Low Temperature Rheological Attributes of Fresh and Sooted Oils
Greg Miiller, Tannas Company, Midland MI, USA

5:35 PM
Closing Remarks
Amy Rishel, Symposium Chair

5:40 PM SYMPOSIUM ADJourns