



Global Lubricants Test Standards Team

**Global Lubricants Test Standards Team (GLTST)  
Orlando Renaissance at Sea World (ASTM D02)  
December 5, 2022**

**Members of GLTST. Attendees and proxies are indicated in blue shading**

**Note: All presentations will be located on the collaboration site sponsored by ASTM. For a link to that site please contact Alyson Fick at [afick@astm.org](mailto:afick@astm.org).**

**Meeting Agenda**

- Greg Miiller called to order at 9:00 am EST, and reviewed antitrust guidelines, which are per ASTM guidelines.
- Greg reviewed the “Call to Order” items. The agenda and minutes were approved by vote.
- Membership: **Vicky Denton proxy for Eugene Tan (ALIA)**.
- See end of document for members in attendance.

**Steering Committee Updates and Mission Statement**

Team met for planning sessions for group. ASTM officially assigned **Louis Fredricks as the GLTST staff member**. Louis will assist the team with documentation, organization and planning.

Welcome Louis!

**Steering Committee Members:**

Greg Miiller, SC Team Lead – Savant Group

Paul Nai – ALIA

Rattanjit Gill – Energy Institute (EI Permanent Member)

Raj Shah – Koehler

Hind Abi-Akar – Independent - HDEOCP

Lin Shui - SINOPEC

**Mission Statement:**

The mission statement of GLTST was discussed. Reminder: The limited access of the group members from only SSO’s and SDO’s encourages sharing and collaboration.

**Old Business/Issues at Hand:**

**Working Group – 1 CEC L-014**

**Goal: To prove CEC L014 and D7109 show equivalent results at 90 passes.**

**Estimate completion date: July, 2023**

ASTM/CEC Issue: CEC L-014 and ASTM D7109

ASTM effort to align D6278 and the 30-pass portion of D7109 COMPLETED.

Effort remains between ASTM and CEC on the 90-pass portion of the methods to show equivalence between L-014 and D7109. The industry would like to align the test methods as they are in several specifications based on ILS results. Now that the ILS for L-014 for reference fluids is completed, the next step will be to evaluate L-014 and D7109 EOT: The CEC has agreed to spearhead the ILS under the L-014 group. They are asking ASTM volunteers to run the tests with them. The two tests will be run to determine if they are equivalent. Fluids and data are ready for analysis. Activities will start with CEC reference fluids that were just in an ILS.

ASTM Volunteers to date: Savant laboratories and SWRI.

- Mr. Miiller asked for a shear susceptible oil to support the ILS program.
- Do NOT want: oils that do not have real value for shear stability as these oils will not provide value for the 90-pass test
- Section B, sub 7 meeting with discuss this item. Reid Patterson (Lubrizol) is another contact that is available in addition to Greg.

Completion target is midyear next year.

Comment: ASTM method will be balloted to reflect equivalence.

Action item: Prepare a ballot item to be ready by 2023 June meeting

## **B. Working Group – 2 (Precision differences in HTHS D4683/L-036 and also Volatility D5800/ L-040)**

**Goal: Consolidate precision between test methods using the same technology. The reason is that there are trade barrier issues with the same equipment, but different precision statements between CEC and ASTM.**

**Estimated Completion Date: December 2023**

### 1. Noack

- a. Waiting on CEC meeting to discuss.

### 2. HTHS

- a. The team met with and discussed options with ASTM and CEC leadership. The CEC has volunteered, through Chris Gray, to analyze data as needed. The recommendation from Alex Lau, chair ASTM D02.94 on Quality Control and Statistics, would be to utilize test method D6708 the data from the ASTM RR and CEC RR (separately, not combined) and develop a precision statement that will cover each of the data sets independently.

L-40 has not met for a while. As mentioned above, the need is to have common precision with the other tests that utilize the same instruments.

Options:

1. Share data from the past from both CEC and ASTM, and have a more robust precision statement. Statistician groups can then analyze the data, understanding that it is possible that two results can be obtained.
2. Develop one precision based on the combined data sets.
  1. Comment: the D5800 data is more robust and obtained differently.
  2. Comment: there could be differences between equipment.
3. Can the data be separated based on the equipment? The precision then is related to the instrument.

This group will present the options to the relevant groups and solicit their decision on the course of action.

### **C. Working Group 3 Angela Willis**

**Goal: To support GLTST goals by providing templates which will help in identifying common needs, and resource-sharing opportunities for current and future lubricants tests within participating standard setting organizations.**

**Estimated Completion Date: None at this time.**

The two activities necessary to complete the overarching goal of WG3 were discussed. The format was also shown and discussed by Hind Abi-Akar.

Goal 1: Increase communication regarding present and future usage of currently shared lubricants tests across the different standard setting organizations.

Goal 2: Identify future lubricant performance needs which are common across all of the standard setting organizations. Identify which current tests can properly measure those performance parameters, as well as identify the gaps.

A core goal for this WG is to creating templates and sharing them with the main committees for implementation and further actions.

Actions: develop a tool box with various orgs that incorporates their comments and their input on the use of this "tool box".

Comment: we are missing input from engine manufacturers; CEC has developed tests and their input is needed.

Response: OEM orgs are represented in this group.

Need to vote on this working group as presented.

Comment: would like to circulate the presentation to various orgs. Their various members need to give their input.

The presentation is on the GLTST collaboration site.

## **New Business:**

### **Industry News/Updates:**

A. Thank you for the input from some of the SSO's that utilize J300! There is an SAE group had voted against the idea of changing the MRV limits to 40,000 mPa-s (from 60,000 mPa-s).

B. ASTM: The survey for the High Temperature High Shear methods has been completed. The referee method D4683 and the other rotational test D4741 test data are stable. However, D5481, the capillary HTHS shows a consistent 0.06 mPa-s high bias in comparison to the other two methods. The survey results were unanimous, saying that this is a concern for the industry. A subsequent survey will be sent as to "what" the group should do to resolve this situation.

C: EV News

1. ASTM launching two Electric Vehicle Bench Test Round Robins (ILS) on
  - a) New EV Conductive Deposit Test
  - b) EV Copper Corrosion Tests
  - c) Subcommittee 9 in 2023

D. European DIN, GFS working on Electric Vehicle Specifications

E. SAE EV J3200 is now official! You can download a copy, at a cost, from the SAE.org website.

F. Attached in the collaboration is a list of other EV activities in ASTM and associated industry groups.

## **International Specification Setting Organization (SSO) Reports / Discussion**

(See ASTM collaboration site for presentations from ACEA and IFC)

**ACEA report** given by Paul Decker-Brentano.

Paul reported on ACEA activities. The short halt continues for legal ACEA issues. The endeavor toward the new specification, however, continues to move forward. A more detailed report may be available at the next meeting.

**JASO update** provided by Satoshi Hirano

A short verbal update was provided and JASO approved a new light duty test and is currently continuing the effort with the specification. The Committees are discussing the items to be shared with this group.

**SAP TC 280 (RIPP) Report:**

No Update. However, a follow-up email from Lin Shui promised an update at the next GLTST meeting!

**API/EMA report: Jeff Harmening**

ILSAC is proposing two ultra-low viscosity grades. Additionally, PC-12 continues to be developed with EMA and is promising.

**IFC – Mike Kunselman:**

Mike Kunselman gave the presentation which is on the collaboration site. Their work is progressing well and new members consistently joining to the IFC team.

**ASTM Subcommittee 9 Report:**

Greg Miiller updated that the EV tests on Conductive Deposit and Copper Corrosion tests will have their ILS and balloting in 2023.

**Other New Business**

**Summary of action items and future activities:**

- The CEC L-014 and ASTM D7109 (Sub. 7) teams are working together to show equivalence with oils from CEC ILS. **ILS to occur in 2023.**
- Statistical streamlining of D4683 and L-036/D5800 and L-040 within ASTM and CEC continue. Work proceeding with CEC, Chris Gray, using D6708.
- TG-3 to develop two documents for SSO reporting.
- SAC will also be presenting at next meeting.
- Need an NLGI update of the additional grease classification HPL would be appreciated – Greg Miiller will contact prior to **next meeting.**
- Continue to work on representation from Africa, South America and now India. **Greg Miiller and Alyson Fick to work in this area together.**

**Next Meetings:**

**February ???? at 8:00 am.**

**ASTM D02 June 2023 in Denver, CO (Face to Face / Hybrid)**

Monday June 26, 2022. 9:00am – 10:30am EST

Meeting adjourned at 9:34 EST.

**ATTENDANCE**

Name	SSO/SDO	Present Yes/No?
David Duncan	ACC	Yes
Colleen Stevens	ACC	No
Jacqueline Berryman	ATC	Yes
Paul Decker-Brentano	ACEA Light Duty	Yes

Nikolay Doroshenko	ATIEL	No
Paul Nai	ALIA	No
Dennis Bachelder	API	No
Jeff Harmening	API	Yes
Derek Guinane	<u>ASTM</u>	Yes
Gregory Miiller	ASTM D02 Officer	Yes
Joseph Franklin	ASTM D02.B Chair	Yes
Jeff Clark	ASTM TMC	Yes
Bob Campbell	ASTM TMC	Yes
Marco Digioia	ATIEL	No
Felipe Lopes	ASTM Brazil	No
Eugene Tan	ALIA	PROXY – Vicky Denton
Mike Conroy	CEC	Yes
Philip Reeve	CEC	No
Rattanjit Gill	EI	Yes
Carol Koopman	ELGI	No
Barbara Goodrich	EMA	No
Hind Abi-Akar	EMA	Yes
Teri Kowalski	IFC	Yes
Mike Kunselman	IFC	Yes
Michael Deegan	ILSAC	Yes
Dean Wingert	ILSAC	No
Nathalia Feitosa	IPB	No
Satoshi Hirano	JAMA	Yes
Kazuo Yamamori	JAMA	Yes
Anoop Kumar	NLGI	No
Joe Kaperick	NLGI	Yes
Dr. Deepak Saxena	NLGI India	No
Dr. SSV Ramakumar	NLGI India	No
Angela Willis	PCEOCP	Yes
Hind Abi-Akar	HDEOCP	Yes
Shawn Whitacre	HDEOCP	Yes
Robert Stockwell	SAE TC1	Yes
Donna Mosher	SAE TC3	No
Astrid Lozano	SCC	No
Lin Shui	Sinopec	Yes
Zhao Jie	SAC	No
Wang Juiyu	SAC	No
Raj Shah	STLE	Yes

<b>David Wright</b>	<b>UKLA</b>	<b>No</b>
<b>Nick Clague</b>	<b>UKLA</b>	<b>Yes</b>
<b>Affiliate - Mailing List Members</b>		
<b>Louis Frederick</b>	<b>ASTM Assigned Staff</b>	<b>Yes</b>
<b>Laila de Castro Cortas</b>	<b>Affiliate</b>	<b>No</b>
<b>Lucas Rossetti</b>	<b>Affiliate</b>	<b>No</b>
<b>Sarah Gobbi</b>	<b>ASTM Europe</b>	<b>No</b>
<b>Khaled Zreik</b>	<b>ILSAC</b>	<b>Yes</b>
<b>Alyson Fick</b>	<b>ASTM D02 Staff Manager</b>	<b>Yes</b>