

**Global Lubricants Test Standards Team (GLTST)**  
**Virtual meeting MINUTES**  
**September 23, 2023**



Global Lubricants Test Standards Team

Call to Order – Steering Committee Lead: Greg Miiller

The meeting was to order at 8:02 AM EST

Attendees were reminded that this meeting is closed. Only members can attend.

- Approval of Agenda (see below)

The agenda was reviewed with no additional requests from the members. The presentation is attached.

**Old Business**

- Short update with WG 1,2

- WK3 discussion

- WK4 EV discussion

- Updates from JASO, IFC, ILSAC, NLGI and ACEA:

**New Business**

GFC and DIN

**Next Meeting**

**Adjournment**

- Minutes

Meeting minutes were approved.

- Membership

The list of members was shared, and a roll call established attendance and a quorum.

The members and attendance list are given at the end of this report. There were 25 members and guests in attendance.

New members:

Allen Comfort – US Army

Eric Holthusen – ALIA

Guests representing Lin Shui

Mrs. Guoru Zhang - Sinopec

Mrs. Jiaqi Chen - Sinopec

**Old Business**

**Mission Statement Reminder**

The mission statement for the GLTST was reviewed. This group mission is to offer an international platform for the lubricants industry to facilitate the sharing of global concerns, materials, intellect and financial commitments.

Providing a communication forum to assist with industry issues, cross border specification differences and streamlined test methods.

To encourage industry collaboration and sharing by facilitating meetings and providing an electronic platform for sharing information, documents, and data.

This group **does not** set or develop standards or interfere with the work of standard organizations.

### **Issues to Discuss – Old Business**

#### **Working Group – 1 G. Miiller**

##### **GOAL: Report on work that is proving CEC L014 and D7109 show equivalent results at 90 pass.**

ASTM/CEC Issue: prove that CEC L-014 and ASTM D6278/D7109 are equivalent.

ILS starting – APPROVED by task groups of ASTM and CEC. A study to evaluate L-014 and D7109:

Are 90 pass final results the same (even if the ASTM test takes a 30 cycle sample)

The ILS is underway from CEC is STILL due September 2023. It will be reviewed in October 2023 by the CEC and December 2023 by the task groups at ASTM.

#### **Working Group – 2** (Precision differences in D4683 and L-036 and 5800 and L-040). **G. Miiller**

Goal: Encourage relevant ASTM subcommittees and CEC to review precision between test methods using the exact same technology for the betterment of the industry as a whole.

This is in-depth and extensive work that requires close collaboration between ASTM subcommittees and CEC statistic groups.

1. **Noack** group has not met. The plan is to meet in October, 2023.

#### 2. **HTHS**

a. Work in process. CEC statistician Chris Grey and statistician Alex Lau, subchair of ASTM D02.94 on Quality Assurance and Statistics are working together to complete the analysis. The data analysis is complete. A recommended value for D4741 is made but not yet for D4683. For D4683 some more samples have been pulled from a previous ILS to share in the effort.

#### **Working Group – 3** (SSO sharing opportunities planning team) **Angela Willis**

No Update

#### **Working Group – 4** (Global EV Test Update) **Needs Team Leader**

1. Foam/Aeration Update (Concerns from China).

Mrs. Zhang , Mrs. Chen – Sinopec – Aeration and foam presentation given. The lower viscosity fluids and EV powertrain operating conditions are causing air entrainment and foam issues. It is suggested to develop new test methods on foam and aeration, which can reflect the dynamic high-speed rotating status in EV powertrain.

2. Conductive Deposit Test (G. Miiller)

ILS intermediate precision – In process. Test method ballot in October for Subcommittee 9.

ILS full precision – Starts in October 2023

3. Wire Corrosion Test (G. Miiller)

ILS intermediate precision – In process. Test method ballot in October for Subcommittee 9.

ILS full precision – Starts in November 2023

### **New Business – SSO/SDO News**

#### **SSO Updates on Test and Specification Development**

Reports:

#### **- NLGI: Joe Kaperick**

The four tests that were presented at the last meeting, needing assistance, were covered.

D1743 (Corrosion Preventative Properties of Lubricating Grease). The team believes it could be a bearing supplier issue. In other words, a potential change in materials as the test results have changed. The supplier is not responding. If anyone can supply assistance in this situation it would be appreciated.

D5706 SRV test ramp rate. The problem was determined to be the setup for the system and has been resolved.

D2596 – 4-ball weld point (old machine ramp rate vs. new machine ramp rate). The speed at which it takes to get to full load has been an issue with older machines. It appears that this problem has been resolved.

D4170 fretting test precision. There is still an ongoing issue with the bearing. It has been confirmed by the supplier that the material for the bearing in this case has been changed. An ILS will have to be performed to evaluate the precision. Any volunteers for this effort would be appreciated.

AEA – HD: Peter Schick will provide an update at the December 2023 meeting.

#### **- JASO Update: Satoshi Hirano**

There are two tests that have been in development. One is a new Noack volatility test that shows correlation to engine testing. Another is the modified shear stability KRL. These have not yet been published. A more thorough presentation will be provided at the December 2023 GLTST meeting if the report is available.

#### **-ILSAC: Mike Deegan**

Mike provided a verbal update to the group. GF-7 and GF-8 are both discussions at ILSAC and API. GF-7 is in Tech Demo mode.

Some of the more critical testing categories are as follows:

Oil Gelation – New test development.

Sequence VIE – Test is good for 4.5 years, replacement being developed.

Sequence VH – Replacement test evaluated.

Sequence X – Chain-wear test being evaluated.

#### **- IFC: Mike Kunselman**

A presentation was provided by IFC. GEO-3, the next specification is on target to be launched in 2024. Several streamlining items were added beyond GEO-1 and 2. There is an effort to standardize EV fluids specifications as well. This may serve well with the EV TG in GLTST.

#### **- ACEA: Paul Decker-Brentano**

ACEA update: Presentation is given by Paul Decker-Brentano. LD Oil sequence 2023 has now been released. A further update will be provided at the December meeting.

AEA – HD: Peter Schick will provide an update at the December 2023 meeting.

#### **New Business**

**Both GFC out of France and the DIN out of Germany were invited to attend the GLTST. Both responded and will discuss it at their next meeting.**

**Closing**

Next Meeting

**ASTM D02 New Orleans, LA****Monday, December 4, 2023****9:00 am – 10:30 am EDT****Sheraton Denver Downtown Hotel – Meeting room****Adjournment – Meeting was adjourned at 8:55 am EST****GLTST Attendance List**

26-Sep-23

<b>Name</b>	<b>SSO/SDO</b>	<b>Attendance</b>
David Duncan - Greer Gibbons (New)	ACC	
Colleen Stevens	ACC	<b>X</b>
Jacqueline Berryman	ATC	<b>X</b>
Paul Decker-Brentano	ACEA Light Duty	<b>X</b>
Peter Schick	ACEA Heavy Duty	
Herve Marie	ATIEL	<b>X</b>
Marco Digioia	ATIEL	
Paul Nai	ALIA	<b>X</b>
Dennis Bachelder	API	
Jeff Harmening	API	
Derek Guinane	<u>ASTM</u>	<b>X</b>
Gregory Müller	ASTM D02 Officer	<b>X</b>
Joseph Franklin	ASTM D02.B Chair	<b>X</b>
Brent Calcut	ASTM TMC	<b>X</b>
Sean Moyer	ASTM TMC	<b>X</b>
Felipe Lopes	ASTM Brazil	
Eric Holthusen	ALIA	<b>X</b>
Mike Conroy	CEC	
Philip Reeve	CEC	<b>X</b>
Rattanjit Gill	EI	<b>X</b>
Carol Koopman	ELGI	
Barbara Goodrich	EMA	<b>X</b>
Teri Kowalski	IFC	<b>X</b>
Mike Kunselman	IFC	<b>X</b>
Michael Deegan	ILSAC	<b>X</b>
Dean Wingert	ILSAC	
Nathalia Feitosa	IPB	

Satoshi Hirano	JAMA	<b>X</b>
Kazuo Yamamori	JAMA	
Anoop Kumar	NLGI	
Joe Kaperick	NLGI	<b>X</b>
Dr. Deepak Saxena	NLGI India	
Dr. SSV Ramakumar	NLGI India	
Angela Willis	PCEOCP	
Hind Abi-Akar	HDEOCP	
Shawn Whitacre	HDEOCP	<b>X</b>
Robert Stockwell	SAE TC1	<b>X</b>
Donna Mosher	SAE TC3	
Astrid Lozano	SCC	
Lin Shui	Sinopec	
Zhao Jie	SAC	
Wang Juiyu	SAC	<b>X</b>
Raj Shah	STLE	<b>X</b>
Allen Comfort	US ARMY	
Jill Bramer	US ARMY	
David Wright	UKLA	
Nick Clague	UKLA	
Mary Ngotho	KEBS	
Guests		
Khaled Zreik	GM	<b>X</b>
Guoru Zhang	SAC (Sinopec)	<b>X</b>

Name	Organization	SSO/SDO	ATTENDANCE
David Duncan	Lubrizol	ACC	
Colleen Stevens	ACC	ACC	
Jacqueline Berryman	Infineum USA LP	ATC	
Paul Decker-Brentano	Toyota	ACEA Light Duty	x
Peter Schick	Daimler Truck AG	ACEA Heavy Duty	
Nikolay Doroshenko	GazPromNeft	ATIEL	
Paul Nai	Asian Lubricant Manufacturers	ALIA	
Dennis Bachelder	American Petroleum Institute	API	
Jeff Harmening	API	API	
Derek Guinane	BP Global Fuels Technology	ASTM	-
Gregory Miiller	Tannas Co	ASTM D02 Officer	x
Joseph Franklin	Intertek Automotive Research	ASTM D02.B Chair	x
Brent Calcut	TMC Executive	ASTM TMC	x
Sean Moyer	TMC	ASTM TMC	
Marco Digioia	ATIEL	ATIEL	
Felipe Lopes	MOOVE Lubricants	ASTM Brazil	
Eugene Tan	Asian Lubricant Manufacturers	ALIA	
Mike Conroy	Total	CEC	
Philip Reeve	ADLU Consultants	CEC	x
Rattanjit Gill	Energy Institute	EI	
Carol Koopman	ELGI	ELGI	
Barbara Goodrich	John Deere Product Engineering	EMA	
Teri Kowalski	Toyota	IFC	
Mike Kunselman	Center for Quality Assurance	IFC	
Michael Deegan	Ford Motor Company	ILSAC	x
Dean Wingert	Ford Motor Company	ILSAC	
Nathalia Feitosa	Instituto Brasileiro de Petroleo, Gas e Biocombustiveis	IPB	
Satoshi Hirano	Toyota	JAMA	
Kazuo Yamamori	Toyota	JAMA	
Anoop Kumar	Chevron Lubricants	NLGI	
Joe Kaperick	Afton Chemical Corp.	NLGI	
Dr. Deepak Saxena	Indian Oil Corporation Limited	NLGI India	
Dr. SSV Ramakumar	Indian Oil Corporation Limited	NLGI India	
Angela Willis	Willis Advanced Consulting	PCEOCP	x
Hind Abi-Akar		HDEOCP	x
Shawn Whitacre	Chevron	HDEOCP	
Robert Stockwell	Chevron Oronite LLC	SAE TC1	x
Donna Mosher	BASF	SAE TC3	
Astrid Lozano	Standards Council of Canada	SCC	
Lin Shui	SINOPEC Lubricant Company	Sinopec	
Zhao Jie	SAC/TC280	SAC	
Wang Juiyu	SAC/TC280	SAC	
Raj Shah	Koehler Instrument	STLE	

Jill Bramer	US Army TARDEC	US Government	
David Wright	UKLA	UKLA	
Nick Clague	Vickers Oil	UKLA	
<b>Affiliate - Mailing List Members</b>			
<b>Name</b>	<b>Organization</b>	<b>SSO/SDO</b>	
Laila de Castro Cortas	Iconic Lubrificantes	Affiliate	
Lucas Rossetti	Iconic Lubrificantes	Affiliate	
Ian Mylrea	Stanhope-Seta	ASTM D02 Officer	
Jim Simnick	Independent	ASTM D02 Officer	
Scott Fenwick	National Biodiesel Board	ASTM D02 Officer	
Sarah Gobbi	ASTM Europe	ASTM Europe	
Khaled Zreik	General Motors	ILSAC	x
Alyson Fick	ASTM Headquarters	ASTM D02 Staff Manager	
IFC Group Email	IFC	IFC	
Louis Fredericks	ASTM Europe	ASTM	
Brian Meincke	ASTM Business Development	ASTM	
Jeff Clark	TMC	ASTM TMC	x