LRI Gear Lubricants Review Committee
Southwest Research Institute – Ann Arbor, Michigan
November 9, 2023
Meeting #211 Minutes
UNCONFIRMED

OPEN COMMITTEE MEETING

1.0 QUORUM / INTRODUCTIONS

1.1 Opening Comments, Call to Order / Quorum Check

The meeting was called to order by Chairman, Troy Muransky. A quorum was established with the following representatives present. NOTE: Some members attended in-person and some attended via WebEx/Telecon only and are noted with an "*".

ATTENDANCE – User Members Present:

Dylan Beck	ASTM/TMC	
Jessica Carowick	Cummins Meritor	
Steve Carr	Dana Corporation	
Jeff Clark (Alt)	ASTM/TMC	
Allen Comfort	U.S. Army	Vice Chairperson
Bruce McGlone	Retired – Cummins Meritor	
Jeanelle Morris	Navistar	
Troy Muransky	American Axle & Mfg	Chairperson
Suzanne Neal	Daimler Trucks North America	
Eric Sattler (Alt)	U.S. Army	
Amy Zyski	Dana Corporation	

Other Participants/Members:

Nick Ariemma	The Lubrizol Corporation
Don Bell	Afton Chemical Corporation
Margaret Caridi	BASF Corporation
Zhang Chao *	PetroChina
Kristijan Drlja	The Lubrizol Corporation
Arjun Goyal	BASF Corporation
Hyeok Hahn *	Chevron
Dan Horvath	Afton Chemical Corporation
Alexander Jackson	Chevron Oronite
Percy Kanga *	Retired ExxonMobil
Anthony Lange	Intertek AR
Chris Lonsway	The Lubrizol Corporation
Donna Mosher	BASF Corporation
Caroline Mueller	Southwest Research Institute
Matt Sangpeal	Afton Chemical Corporation
Nick Schaup	The Lubrizol Corporation
Addison Schweitzer	Shell International
Dairene Uy *	Shell International
Wes Venhoff	The Lubrizol Corporation
Rebecca Warden	Chevron Oronite

Guest:

Mike Barry	BASF Corporation
Max Burgman	Fuchs
Jason Gingrich	The Lubrizol Corporation

PRI Staff

Wendy Grubbs

1.2 Review Code of Ethics and Conflict of Interest

The meeting attendees were reminded of their Code of Ethics and Conflict of Interest responsibilities and Anti-Trust notification which are intended to guide all in their participation in the meeting. They were posted at the bottom of the meeting agenda.

1.3 Confirmation of Guests – Determine Membership

The attendees recognized as Guests were acknowledged.

1.4 Review Members Completion of Confidentiality Forms

No Confidentiality Forms required signature.

1.5 Request for Membership

Max Burgman of Fuchs and Jason Gingerich from The Lubrizol Corporation requested membership.

2.0 Approval of Previous Meeting #210 Minutes

J. Morris made a motion, 2nd by B. McGlone to approve the LRI Meeting Minutes for meeting #210 as written. Unanimously approved.

3.0 Summary of ASTM Meetings

3.1 Report of Summary of ASTM Meetings – N. Ariemma

N. Ariemma presented a summary report of the ASTM meetings conducted Wednesday, November 8th. (Attachment 1).

It was noted that if anyone wants to schedule an L Test Training, they are to contact Dylan Beck at ASTM/TMC at djb@astmtmc.org.

4.0 Action Item Review

4.1 T. Muransky to develop verbiage for a reference fluid approval process which would include expiration dates, reblending, testing, quality assurance and quality control in between and a process to find replacement fluids. **OPEN**

4.2 LRI Committee Members to review each section of PD4000 to confirm the verbiage prior to incorporating each section into J2360. **OPEN**

4.3 A. Comfort to develop verbiage for PD4000 explaining the Limited Slip Differential specifics for the Army. **OPEN**

4.4 PRI (when Dylan Beck is back in the office) to coordinate a conference call with the LRI Committee to develop a go forward plan to address the ASTM/TMC maintenance and rollout of new reference fluids. **OPEN Moved Action to the ASTM Surveillance Panel**

4.5 PRI to develop a Letter to Industry regarding changing “Initial Boiling Point” replacing “1% @ °C”. “ASTM D2887” replaces “ASTM D6417” and noting the revision of GL Form 4. **CLOSED To be discussed during the revision of PD4000**

4.6 N. Schaup to develop verbiage for ASTM D5704 for use of 150-hour data in place of 50-hour data. Include a statement indicating that extending the hours does not invalidate the test. A note to this affect also needs to be included in J2360. S. Moyer referenced ASTM D8048 Section 9.4.1. **OPEN**

4.7 PRI to schedule a WebEx/Telecon Meeting with the Field Trial Replacement Sub-Team: H.Hahn (lead) R. Warden, C. Mueller, A. Lange, T. Muransky, M. Sangpeal, A. Comfort, A. Zyski, N. Schaup, D. Mosher, D. Uy and E. Sattler. **CLOSED**

5 LRI Meeting Attendance / Venue

5.1 2024 DRAFT LRI Meeting Schedule

The draft 2024 LRI Meeting Schedule was reviewed and revised and it was determined that an extra day (Tuesday) will be added to the February 2024 meeting to provide time to work on the revision of PD4000. One 2024 meeting will be held at the Southwest Research Institute (SwRI) in San Antonio, Texas (February), one meeting at the Performance Review Institute Headquarters in Warrendale, Pennsylvania (August) and two meetings will be held at the Intertek AR facility in Plymouth, Michigan (May and November).

ACTION ITEM: PRI to post the final 2024 LRI Meeting Schedule on the www.p-r-i.org website and include a copy of the schedule when emailing the meeting minutes from meeting #211.

ACTION ITEM: PRI to coordinate the meetings at both the SwRI facility in San Antonio, Texas and Intertek AR in Plymouth, Michigan.

5.2 Confirm Next LRI Meeting Venue (request status of field test presentations)

The next LRI Meeting #212 is scheduled for Thursday, February 8, 2024. An extra day, Tuesday, February 6, 2024, is being added to review/revise PD4000 and the ASTM Meeting will be held on Wednesday, February 7, 2024. All meetings will be held at Southwest Research Institute (SwRI) in San Antonio, Texas.

6 Old Business

6.1 Limited Slip Differential Clutches Sub-Team Report Out

Allen Comfort, Troy Muransky, Arjun Goyal, Dan Horvath, Matt Sangpeal, Don Bell, Dairene Uy, Jason Carter, Amy Zyski, Anthony Lange, Jeanelle Morris, Wes Venhoff

6.1.1 Review Proposed Verbiage for PD4000 New Section 3.13 (A. Comfort)
The Action Item remains open.

It has been decided to include a "-A" at the end of the PRI GL number (i.e., PRI GL 1235-A) on the J2360 PRI-QPL for those products that meet the additional requirements for the Army Limited Slip Differential.

UPDATE February 9, 2023: The Action Item remains open.
UPDATE May 11, 2023: This topic and action item remains open.
UPDATE November 9, 2023: D. Mosher presented the June 2023 SAE Update article. This topic will be addressed during the February 6, 2024, PD4000 revision meeting held at SwRI in San Antonio, Texas.

6.2 Review of DRAFT PD4000 by Sub-Team – T. Muransky

The Sub-Team consists of J. Carter, J. LaBond, A. Zyski, S. Neal, K. Zreik, J. Morris, S. Carr, D. Beck, A. Comfort, E. Sattler, T. Muransky, M. Caridi, H. Hahn, N. Ariemma, S. Wade and N. Schaup.

Tuesday, February 6, 2024, in person meeting will be held at SwRI in San Antonio, Texas to conduct an in-person review of PD4000 to prepare a final draft to be balloted to the LRI Committee.

ACTION ITEM: J. Clark to determine where we can publish the Field Trial test method in lieu of including it in SAE J2360 or PD4000 – i.e., an ASTM Test Method.

6.3 Rollout of New Fluids – D. Beck

This topic will be closed and addressed by the ASTM Surveillance Panel.

6.4 Misaligned Testing Requirements for New Base Oils (D6417 vs D2887 for boiling point curve)

This topic will be closed and addressed during the document review meeting for PD4000 held on Tuesday, February 6, 2024, at SwRI in San Antonio, Texas.

6.5 Field Trial Replacement Sub-Team Update – H. Hahn

H. Hahn presented a status update of this sub-team. The next WebEx/Telecon Meeting will be held sometime in the January 2024 timeframe.

ACTION ITEM: J. Carowick to contact Mike Johns (bearings) and Ron Noteboom (seals) from Cummins Meritor to see if they will be the SMEs to work with the Field Trial Replacement Sub-Team. S. Carr volunteered to be an SME for Seals.

7.0 New Business / Open Discussion
No New Business or Open Discussion Topics

8.0 Parking Lot
- 8.1 Organometallic Compounds – ASTM D4591/ASTM D5185 – Remove from PD4000 (Value Data? No Suitable Defined Way to Measure) (T. Muransky)
- 8.2 Next revision of PD4000 – 2.3.2 - L-42 testing down to 1 instead of 2 samples.
- 8.3 Changing "Initial Boiling Point" replacing "1% @ °C". "ASTM D2887" replaces "ASTM D6417" and noting the revision of GL Form 4.

9.0 Adjournment

NOTE: 40-Day Corrections are due to PRI by Tuesday, December 19, 2023.

The next LRI Committee Meeting is scheduled for Thursday, February 8, 2024. A notification will be distributed three (3) weeks prior to that date.

Presenters are requested to provide an expected date of field test completion and presentation to the LRI Committee by contacting the PRI Staff (Wendy Grubbs – wgrubbs@p-r-i.org or 724/772-8647).

Minutes prepared by Wendy Grubbs

***** For PRI Staff use only: ******		
Are procedural/form changes required based on changes/actions approved during this meeting? (select one) YES* ☐ NO ☒ *If yes, the following information is required:		
Documents requiring revision:	Who is responsible:	Due date: