LRI Gear Lubricants Review Committee
PRI Headquarters – Warrendale, Pennsylvania
August 10, 2023
Meeting #210 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:

Jason Carter	Cummins Meritor	
Allen Comfort	U.S. Army	Vice Chairperson
Bruce McGlone *	Retired – Cummins Meritor	
Jeanelle Morris	Navistar	
Troy Muransky	American Axle & Mfg	Chairperson
Eric Sattler (Alt)	U.S. Army	
Khaled Zreik *	General Motors	
Amy Zyski	Dana Corporation	

Other Participants/Members:

Nick Ariemma	The Lubrizol Corporation
Rob Banas	ExxonMobil Research
Don Bell	Afton Chemical Corporation
Margaret Caridi	BASF Corporation
Zhang Chao *	PetroChina
Richard Gapinski	BP
Arjun Goyal *	BASF Corporation
Hyeok Hahn *	Chevron
Alexander Jackson	Chevron Oronite
Percy Kanga *	Retired ExxonMobil
Anthony Lange	Intertek AR
Donna Mosher *	BASF Corporation
Caroline Mueller	Southwest Research Institute
Matt Sangpeal	Afton Chemical Corporation
Nick Schaup	The Lubrizol Corporation
Dairene Uy *	Shell International
Sarah Wade	The Lubrizol Corporation
Rebecca Warden *	Chevron Oronite

Guest:

Sean Moyer	ASTM/TMC
Patrick King	BP
George Zarins *	American Axle & Mfg.

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. This is Sean Moyer's first in-person meeting as a potential LRI Reviewer. He is required to attend a second LRI Meeting in person before requesting membership as a Reviewer.

1.4 Review Members Completion of Confidentiality Forms

S. Moyer signed a Confidentiality Form for PRI's records.

1.5 Request for Membership

No requests for membership initiated.

2.0 Approval of Previous Meeting #209 Minutes

A.Zyski made a motion, 2nd by J. Carter to approve the LRI Meeting Minutes for meeting #209 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, August 9th. (Attachment 1).

4.0 Action Item Review

Action Items 4.3, 4.5 and 4.6 were closed. Action Items 4.1, 4.2 and 4.4 remain open.

5.0 LRI Meeting Attendance / Venue

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

The next LRI Meeting #211 is scheduled for Thursday, November 9, 2023, at Southwest Research Institute in Ann Arbor, Michigan. It was noted that The Lubrizol Corporation will be presenting Field Trial parts at the November 2023 LRI Meeting.

6.0 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

a. 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.

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.

A WebEx/Telecon Meeting was conducted on July 20, 2023. A second WebEx/Telecon Meeting is scheduled for Thursday, August 17, 2023.

7.0 New Business / Open Discussion

7.1 Rollout of New Fluids – S. Moyer for D. Beck

S. Moyer reported that the whole process of annually validating reference fluids including the roll-out of new reference fluids and the amount of time reference fluids are kept on the list needs a thorough review and likely language included in PD4000. An LRI Sub-Team needs to be developed to discuss this topic and develop a go forward plan.

ACTION ITEM: 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.

7.2 Misaligned Testing Requirements for New Base Oils (D6417 vs D2887 for boiling point curve) – S. Wade

The LRI Committee proposed to change the Boiling Point Distribution on GL Form 4 (row 42) to read as follows: “Initial Boiling Point” replacing “1% @ °C”. “ASTM D2887” replaces “ASTM D6417”.

ACTION ITEM: 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.

7.3 L60-1 – D. Bell

D. Bell brought up the subject of allowing 150-hour data to be considered in place of the 50-hour data.

ACTION ITEM: 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.

7.4 Dyno Test – Light Duty Field Trial Replacement

A Sub-Team was developed of the following volunteers: R. Warden, C. Mueller, A. Lange, H. Hahn, T. Muransky, M. Sangpeal, A. Comfort, A. Zyski, N. Schaup, D. Mosher, D. Uy and E. Sattler.

To replace the high cost ($200,000) and time consuming (1.8 years) light duty field trial, this Sub-Team will develop a proposal to replace the light duty field trial with a dyno test. It was suggested that the sub-team obtain the data from the Army from their High Mobility Multipurpose Vehicle (HMMWV) testing.

ACTION ITEM: 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.

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)

8.3 Next revision of PD4000 – 2.3.2 - L-42 testing down to 1 instead of 2 samples.

9.0 Adjournment

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

The next LRI Committee Meeting is scheduled for Thursday, November 9, 2023. 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:
GL Form 4	**PRI**	**September 15, 2023**