

L-42 Surveillance Panel Meeting Minutes

Intertek PSI, Plymouth, MI and Virtual Meeting – Microsoft Teams

August 13, 2025

Attendees: voting members in **bold**, * indicates virtual attendance

D. Beck (TMC)	A. Goyal (BASF)	A. Smith (Infineum)
D. Bell (Afton)	J. Grewe (LZ)	C. Steele (BASF)
T. Bender (Fuchs)	S. Jetter (Exxon Mobil)	A. Stone (Afton)*
M. Burgman (Fuchs)	C. McCollum (Richful)	B. Transue (TMC)
B. Campbell (Afton)	T. Muransky (AAM)	D. Uy (Shell)
M. Caridi (BASF)	G. Parker (LZ)	C. Vander Wal (Daimler Truck)
J. Carowick (Cummins)	M. Portell (IAR)	W. Venhoff (TMC)
H. Catania (Cummins)	M. Sangpeal (Afton/C)	R. Warden (Chevron Oronite)
M. Charron (SwRI)	E. Sattler (US Army)	P. Wright (SwRI)
A. Comfort (US Army)	N. Schaup (LZ)	G. Zarins (AAM)
T. Gibson (Dana)	A. Schweitzer (Shell)	

Call to Order

Review of Agenda

The meeting agenda is attached.

Review of Membership

Amend voting members:

~~C. Mueller (SwRI)~~ → P. Wright (SwRI)

~~A. Lange (IAR)~~ → M. Portell (IAR)

Add C. McCollum (Richful) and A. Schweitzer (Shell)

A motion was made to approve the above changes to membership.

Motion: C. McCollum

Second: M. Charron

All in favor, no objections, no abstentions.

Approval of Meeting Minutes

Meeting minutes for approval:

▲ “20250507_SP” → May 5, 2025 – Surveillance Panel Meeting – Plymouth, MI

A motion was made to approve the meeting minutes as presented.

Motion: T. Muransky

Second: A. Goyal

All in favor, no objections, no abstentions.

Action Item Review

One open action item remains from May:

- Afton and Chevron-Oronite will propose a borderline-passing 75W oil for a Canadian L-42 validation run.
 - Both labs ran into unforeseen issues and plan to continue development

Next Hardware Batch Order

All labs received their full order of axles plus overrun axles. No issues with build quality were noted so far. The batch designation is P2AD8/MSPL1.

The committee voted to approve this new hardware for testing with the following motion:

P2AD8/MSPL1 batch of L-42 hardware is approved for testing. Limits from the previous batch will be carried forward. The motion is effective immediately.

Motion: P. Wright

Second: M. Portell

All in favor, no objections, no abstentions.

Next-Gen L-42 Test Hardware

No recent update from Dana on delivery of the first prototype gearset. T. Gibson will reach out within Dana for additional info.

Action Item: T. Gibson to inquire within Dana about next gen hardware development progress.

Wheel Speed DAQ Discussion

A motion was made to add a definition of the term 'Single Scan' to Section 3 Terminology:

3.1.4 Single-Scan: Refers to operational data that has not been filtered by hardware devices, software calculations, or any other filtering strategy not otherwise defined in D7452.

Motion: C. Vander Wal

Second: C. McCollum

All in favor, no objections, no abstentions.

Single Reference Test Torque Validity Discussion

There was discussion around adding a table to help clarify referencing requirements. Additional work and discussion is needed.

Action Item: W. Venhoff to continue work on table.

L-42-1 Development

A MS Word version of D7452 was received from ASTM.

Action Item: M. Sangpeal to begin drafting L-42-1 procedure.

Call for New Reference Oil

The request remains open to lubricant suppliers to develop a new high reference oil for L-42 testing. Any interested lubricant supplier can contact the TMC directly. The new oil should produce equivalent performance to TMC 117 without the use of any correction factors.

Add Build Specs to Future Test Axle Orders

The committee discussed adding additional build specs to future test axle orders. After reviewing existing drawings and documents, it was concluded that specs currently called out are adequate.

Drawing names could be added to the Assembly Requirements document.

Action Item: T. Gibson to identify relevant drawings / versions within Dana.

New/Open Issues

No new issues were identified.

Adjournment

A motion was made to adjourn.

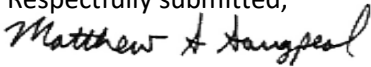
Motion: M. Charron

Second: M. Portell

All in favor, no objections, no abstentions.

Meeting adjourned.

Respectfully submitted,



Matt Sangpeal

L-42 Surveillance Panel Chairman



L-42 Surveillance Panel Meeting

ASTM D7452

Intertek PSI

Plymouth Township, MI

August 13, 2025

2:30 – 3:30 PM EST

Passion for Solutions™

Agenda

 **Call to Order**

 **Agenda**

 **Membership Review & Update**

 **Approval of Meeting Minutes**

▲ “20250507 SP” – Intertek PSI, Plymouth, MI

 **Action Item Review**

 **Next Hardware Batch Order Update**

 **Next-Gen L-42 Test Hardware Update**

 **Wheel Speed Discussion – ‘Single Scan’ definition**

 **Single Calibration Tests**

 **L-42-1 Development Updates**

 **Call for New Reference Oil**

 **Add build specs to future test axle orders**

 **New Issues**

 **Adjournment**



Passion for Solutions™

L-42 SP Voting Members

 Steve Jetter:	Exxon Mobil
 Wes Venhoff:	TMC
 Allen Comfort:	US Army
 Arjun Goyal:	BASF
 Troy Muransky:	AAM
 Jessica Carowick:	Cummins
 Matt Sangpeal:	Afton Chemical (Chair)
 Nick Schaup:	Lubrizol
 Anthony Lange:	Intertek swap in Micheal Portell
 Caroline Mueller:	SwRI swap in Payton Wright
 Trevor Gibson:	Dana
 Rebecca Warden:	Chevron-Oronite
 Andrew Smith:	Infineum
 Camden Vander Wal:	Daimler Truck

Add Addison Schweitzer and Clarence McCollum

Approval of Meeting Minutes

SP Meeting Minutes

- ▲ “20250507 SP” → May 7, 2025 – Surveillance Panel Meeting - Intertek PSI, Plymouth, MI and Virtual Meeting via Microsoft Teams

Motion to Approve Meeting Minutes as they stand.

Action Item Review

- ▲ **Afton and Chevron-Oronite will propose a borderline-passing 75W oil for a Canadian L-42 validation run.**
 - ▲ Status Afton: In-process.
 - ▲ Status Chevron-Oronite: In-process.
- ▲ **W. Venhoff to add validity check for Single Try reference test to TMC protocol. W. Venhoff also to create a table with examples of Reference Sequences to help clarify requirements in D7452.**
 - ▲ Status: Complete (details to follow)
- ▲ **M. Sangpeal to set up conference call to discuss definition of the term 'Single Scan' and adding examples and equations to add clarity to D7452.**
 - ▲ Status: Complete (details to follow)
- ▲ **Action Item: N. Ariemma to contact ASTM to request an editable version of D7452.**
 - ▲ Status: Complete
- ▲ **M. Sangpeal to set up conference call with test labs and TMC to discuss adding axle build specs to D7452**
 - ▲ Status: Complete (details to follow)

Next Hardware Batch Order

Pilot batch approved 7/11/25

- ▲ Bulk assembly began 7/12/25

All labs have received full orders + overrun axles

- ▲ P2AD8/MSPL1 batch designation

Approval process for bulk batch (same as last time?)

- ▲ Each participating lab to run at least one Hi and one Lo reference on a calibrated stand
- ▲ Runs not to count against reference period
- ▲ Submit data to TMC by xx date

Motion to approve 2025 hardware batch validation plan.

Next-Gen L-42 Hardware Update

Hardware validation plan:

- ▲ Approved in Feb. SP meeting

Timing for delivery:

- ▲ Close to next production run (waiting for fresh update from Dana)

Prototype testing lab:

- ▲ Afton

Which 75W oil will be tested / who will provide?

- ▲ Afton or Chevron-Oronite

No updates...

Wheel Speed Discussion: Single-Scan Definition

Conf. Call w/labs and TMC 8.5.25

Add Definition to Section 3 Terminology

- ▲ 3.1.4 Single-Scan: Refers to operational data that has not been filtered by hardware devices, software calculations, or any other filtering strategy not otherwise defined in D7452.

12.1.2 *Wheel Speeds:*

12.1.2.1 During Conditioning 1, see Fig. A6.11 location (A) and Conditioning 3, see Fig. A6.12 location (D), the reported wheel speeds shall be the average over the steady-state sequence.

12.1.2.2 Referring to Figs. A6.11 and A6.12, during Conditioning 2 or 4, the value of the maximum and minimum **single scan** conditioning 2 and 4 wheel speeds are located at (B₁-B₃ and C₁-C₄) and (E₁-E₃ and F₁-F₄) respectively. For both conditioning 2 and 4, independently report the maximum, minimum, and average of the **single scan** maximum speeds and the maximum, minimum, and average of the **single scan** minimum speeds by including all peaks and valleys not connected to a steady state operating condition phase.

Motion to add Single-Scan definition as stated above to Section 3 of D7452.

Single Calibration Tests

- W. Venhoff to add validity check for Single Try reference test to TMC protocol. W. Venhoff also to create a table with examples of Reference Sequences to help clarify requirements in D7452.

L-42-1 Development Updates

 MS Word version of D7452 received from ASTM

 Rework to create L-42-1 version

▲ Stand alone from D7452 (ala L-37-1)

 Ready to begin drafting

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Designation: D7452 – 24a

Date: <Enter Date>
 To: Subcommittee <AXX.XX> or Main Committee <AXX> members (both for concurrent ballots)
 Tech Contact: <Contact Name, email address/phone number>
 Work Item #: <Enter Work Item number>
 Ballot Action: Revision of <Enter Standard Designation/Title>
 Rationale: <Enter reasons for proposed ballot action. Include an update on previous ballot history, if applicable>

Standard Test Method for Evaluation of the Load Carrying Properties of Lubricants Used for Final Drive Axles, Under Conditions of High Speed and Shock Loading¹

This standard is issued under the fixed designation D7452; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

INTRODUCTION

Portions of this test method are written for use by laboratories that make use of ASTM Test Monitoring Center (TMC)² services (see Annex A1 – Annex A4).

The TMC provides reference oils, and engineering and statistical services to laboratories that desire to produce test results that are statistically similar to those produced by laboratories previously calibrated by the TMC.

In general, the Test Purchaser decides if a calibrated test stand is to be used. Organizations such as the American Chemistry Council require that a laboratory use the TMC services as part of their test registration process. In addition, the American Petroleum Institute and the Gear Lubricant Review Committee of the Lubricant Review Institute (SAE International) require that a laboratory use the TMC services in seeking qualification of oils against their specifications.

The advantage of using the TMC services to calibrate test stands is that the test laboratory (and hence the Test Purchaser) has an assurance that the test stand was operating at the proper level of test severity. It should also be borne in mind that results obtained in a non-calibrated test stand may not be the same as those obtained in a test stand participating in the ASTM TMC services process.

Laboratories that choose not to use the TMC services may simply disregard these portions.

1. Scope *

1.1 This test method covers the determination of the anti-scoring properties of final drive axle lubricating oils when subjected to high-speed and shock conditions. This test method is commonly referred to as the L-42 test.²

1.2 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.2.1 *Exceptions*—SI units are provided for all parameters except where there is no direct equivalent such as the units for screw threads, National Pipe Threads/diameters, tubing size, and single source equipment suppliers.

1.3 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.* Specific warning information is given in Sections 4 and 7.

1.4 *This international standard was developed in accordance with internationally recognized principles on standardization*

¹ This test method is under the jurisdiction of ASTM Committee D02 on Petroleum Products, Liquid Fuels, and Lubricants and is the direct responsibility of Subcommittee D02.B0.03 on Automotive Gear Lubricants & Fluids.

Current edition approved Nov. 1, 2024. Published November 2024. Originally approved in 2008. Last previous edition approved in 2024 as D7452 – 24. DOI: 10.1520/D7452-24A.

*A Summary of Changes section appears at the end of this standard.



² Until the next revision of this test method, the ASTM Test Monitoring Center (TMC) will update changes in this test method by means of information letters. Information letters may be obtained from the ASTM Test Monitoring Center, 203 Armstrong Drive, Freeport, PA 16229, Attention: Director. This edition incorporates revisions in all information Letters through No. 24-1. The TMC is also a source of reference oils.

Call for New Reference Oil

- ▲ **A request is being made to lubricant suppliers to develop a new high reference oil for L-42 testing.**
 - ▲ Any interested lubricant supplier can contact the TMC directly
- ▲ **The new oil should produce equivalent performance to TMC 117 without the use of any correction factors.**
 - ▲ TMC 117 Correction Factors:
 - R: 4 P: 6
 - ▲ TMC 117 Targets:
 - Mean: 23 Std. Dev: 5.49
 - Low: 13 High: 32

Add build specs to future test axle orders

- ▲ Conf. Call 8.5.25 w/labs and TMC
- ▲ Reviewed 20-08 Assembly Requirements Document
- ▲ Reviewed detail drawings on Ring, Pinion, and Assembly
- ▲ Drawings have specs for bearing pre-load, surface finish, heat treatment, etc.
- ▲ Assembly Requirements define Backlash and contact pattern specs
- ▲ Contact Dana to confirm which drawings are current
 - ▲ Add those drawing names to the Assembly Requirement document

Work Instruction WIENG00001 / 1		OFDT - Lugoff, SC, US - Lugoff Offhighway	
ASTM Assembly Requirements			
 Dana Holding Corporation 1255 Commerce Drive Lugoff, SC 29078-9164 (269) 567-1160			
Document Identity			
Document Status and Ownership			
Current Status	Approved - Released		
Approval Date	August 18, 2014	Release Date	August 18, 2014
Version Author / Version Manager	 Ottley, Derek		
Document Categorization			
Responsible Department	Manufacturing Engineering		
Process Name	Production / Manufacturing		
Standard Elements	ISO 9001/TS16949 Standard Elements 7 Product realization 7.1 Planning of product realization 7.5 Production and service provision		
Dana Departments	Manufacturing Engineering		
Dana Areas			

New Issues



Motion to Adjourn

Thanks!

L-42 Surveillance Panel Membership/Attendance
Intertek PSI, Plymouth, MI and Microsoft Teams Virtual Meeting
August 13, 2025

Present	Name	Voting Non-Voting	Company Name Company Address	Contact information	
	Aguirre, Nancy	NV	Intertek Automotive Research	Phone:	
			5404 Bandera Rd. San Antonio, TX 78238	E-mail:	nancy.aguirre@intertek.com
	Ariemma, Nick	NV	The Lubrizol Corporation	Phone:	
			29400 Lakeland Boulevard Wickliffe, OH 44092	E-mail:	Nick.Ariemma@Lubrizol.com
DB	Beck, Dylan	NV	ASTM Test Monitoring Center	Phone:	724-355-1854
			203 Armstrong Drive Freeport, PA 16229	E-mail:	djb@astmtmc.org
DB	Bell, Don	NV	Afton Chemical	Phone:	804-788-6332
			500 Spring St. Richmond, VA 23219	E-mail:	don.bell@aftonchemical.com
	Bender, Tobias	NV	Fuchs Lubricants	Phone:	708-737-1681
			17050 Lathrop Ave Harvey, IL 60426	E-mail:	Tobias.Bender@fuchs.com

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Present	Name	Voting Non-Voting	Company Name Company Address	Contact information	
MB	Burgman, Maxim	NV	Fuchs Lubricants	Phone:	248-846-3120
			17050 Lathrop Ave Harvey, IL 60426	E-mail:	maxim.burgman@fuchs.com
BC	Campbell, Bob	NV	Afton Chemical	Phone:	804-788-5340
			500 Spring St. Richmond, VA 23219	E-mail:	Bob.Campbell@aftonchemical.com
MC	Caridi, Margaret	NV	BASF	Phone:	914-785-2336
			500 White Plains Rd Tarrytown, NY 10591	E-mail:	margaret.caridi@basf.com
JC	Carowick, Jessica	V	Cummins	Phone:	248-872-3055
			2135 W. Maple Rd Troy, MI 48084	E-mail:	Jessica.Carowick@cummins.com
HC	Catania, Hailey	NV	Cummins-Meritor	Phone:	248-821-9862
			2135 W. Maple Rd Troy, MI 48084	E-mail:	Hailey.Catania@cummins.com



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Present	Name	Voting Non-Voting	Company Name Company Address	Contact information	
	Cereghino, Brian	NV	IPAC Inc.	Phone:	
				E-mail:	bcereghino@ipac-inc.com
M.C.	Charron, Michael	NV	Southwest Research Institute	Phone:	832-444-2180
			6220 Culebra Rd. San Antonio, TX 78238	E-mail:	michael.charron@swri.org
	Clark, Jeff	NV	ASTM Test Monitoring Center	Phone:	412-365-1032
			203 Armstrong Drive Freeport, PA 16229	E-mail:	jac@astmtmc.org
A.C.	Comfort, Allen	V	US Army DEVCOM	Phone:	586-282-4225 586-571-6551
				E-mail:	allen.s.comfort.civ@army.mil
	De La Fuente, Hector	NV	Chevron Oronite	Phone:	210-867-8612
				E-mail:	hdelafuente@chevron.com

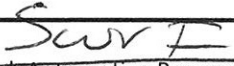
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Present	Name	Voting Non-Voting	Company Name Company Address	Contact information	
	Fry, Enia	NV	Daimler Truck	Phone:	313-802-2835
				E-mail:	enia.fry@daimlertruck.com
TG	Gibson, Trevor	V	Dana Incorporated	Phone:	419-386-9783
			3939 Technology Dr Maumee, OH 43537	E-mail:	trevor.gibson@dana.com
	Gingerich, Jason	NV	The Lubrizol Corporation	Phone:	440-391-0101
			29400 Lakeland Boulevard Wickliffe, OH 44092	E-mail:	Jason.Gingerich@lubrizol.com
Jm	Goyal, Arjun	V	BASF	Phone:	914-785-2083
			500 White Plains Rd Tarrytown, NY 10591	E-mail:	arjun.goyal@basf.com
	Hahn, Hyeok	NV	Chevron Oronite	Phone:	408-507-2848
				E-mail:	hyeok.hahn@chevron.com

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Present	Name	Voting Non-Voting	Company Name Company Address	Contact information	
	Haynes, Troy	NV	IPAC Inc.	Phone:	
				E-mail:	thaynes@ipac-inc.com
	Horvath, Dan	NV	Afton Chemical	Phone:	248-514-2551
			2000 Town Center, Suite 1160 Southfield, MI 48075	E-mail:	dan.horvath@aftonchemical.com
	Jackson, Alexander	NV	Chevron Oronite	Phone:	510-367-7541
			4502 Centerview, Suite 210 San Antonio, TX 78228	E-mail:	alexmjack@chevron.com
	Jetter, Steve	V	Exxon Mobil	Phone:	848-214-3869
			245 Hickory Corner RD East Windsor, NJ 08520	E-mail:	steven.m.jetter@exxonmobil.com
	Jordan, Brad	NV	Shell	Phone:	804-516-1238
			2084 Ditchley Rd Kilmarnock, VA 22482	E-mail:	brad.jordan@shell.com





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Present	Name	Voting Non-Voting	Company Name Company Address	Contact information	
	Joy, Tisha	NV	BASF	Phone:	914-785-2206
				E-mail:	tisha.joy@basf.com
	Kanga, Percy	NV	Exxon Mobil (Retired)	Phone:	
				E-mail:	
	Kostan, Travis	NV	Southwest Research Institute	Phone:	210.522.2407
				E-mail:	travis.kostan@swri.org
	Lange, Anthony	V	 Intertek Automotive Research	Phone:	210-634-1103
			5404 Bandera Rd. San Antonio, TX 78238	E-mail:	anthony.lange@intertek.com
	Morris, Jeanelle	NV	Navistar	Phone:	331-332-1661
			2701 Navistar Dr Lisle, IL 60532	E-mail:	jeanelle.morris@navistar.com

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Present	Name	Voting Non-Voting	Company Name Company Address	Contact information	
	Mosher, Donna	NV	BASF	Phone:	269-217-1715
			100 Park Ave Florham Park, NJ 07932	E-mail:	donna.mosher@basf.com
Report	Mueller, Caroline	V	Southwest Research Institute	Phone:	210-522-2671
			6220 Culebra Rd. San Antonio, TX 78238	E-mail:	caroline.louis@swri.org
Jm	Muransky, Troy	V	AAM	Phone:	734-564-8406
			1840 Holbrook Ave Detroit, MI 48212	E-mail:	troy.muransky@aam.com
	Neal, Suzanne	NV	Daimler Trucks/Detroit Diesel	Phone:	
				E-mail:	suzanne.neal@daimler.com
MP	Portell, Michael	NV	Intertek Automotive Research	Phone:	210-896-8012
			5404 Bandera Rd. San Antonio, TX 78238	E-mail:	michael.portell@intetec.com

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Present	Name	Voting Non-Voting	Company Name Company Address	Contact information	
	Sangpeal, Matt	V/Chair	Afton Chemical	Phone:	804-788-5364
			500 Spring St. Richmond, VA 23219	E-mail:	matt.sangpeal@aftonchemical.com
	Sattler, Eric	NV	CCDC-GVSC	Phone:	586-282-2272
			Warren, MI	E-mail:	eric.r.sattler.civ@army.mil
	Schaup, Nick	V	The Lubrizol Corporation	Phone:	616-710-2546
			29400 Lakeland Boulevard Wickliffe, OH 44092	E-mail:	Nick.Schaup@Lubrizol.com
	Schweitzer, Addison	NV	Shell	Phone:	346-549-2481
				E-mail:	Addison.Schweitzer@shell.com
	Smith, Andrew	V	Infineum	Phone:	210-823-8501
				E-mail:	andrew.smith@infineum.com

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Present	Name	Voting Non-Voting	Company Name Company Address	Contact information	
DU	Uy, Dairene	NV	Shell	Phone:	281-544-6781
				E-mail:	dairene.uy@shell.com
Cw	Vander Wal, Camden	NV	Daimler Truck / Detroit Diesel	Phone:	616-431-1836
			13400 Outer Dr West Radford, MI 48239	E-mail:	camden.vander_wal@daimlertruck.com
WNV	Venhoff, Wes	V	ASTM Test Monitoring Center	Phone:	
			203 Armstrong Drive Freeport, PA 16229	E-mail:	wvn@astmtmc.org
RLW	Warden, Rebecca	V	Chevron Oronite	Phone:	830-865-6771
			4502 Centerview, Suite 210 San Antonio, TX 78228	E-mail:	Rebecca.Warden@chevron.com
PW	Wright, Payton	NV	Southwest Research Institute	Phone:	
			6220 Culebra Rd San Antonio, TX 78238	E-mail:	Payton.Wright@swri.org

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	Yucebilgic, Fatih	NV	Fuchs Lubricants	Phone:	708-539-0252
			17050 Lathrop Ave Harvey, IL 60426	E-mail:	fatih.yucebilgic@fuchs.com
G2	Zarins, George	NV	AAM	Phone:	586-854-8810
			1840 Holbrook Detroit, MI	E-mail:	george.zarins@aam.com
	Zreik, Khaled	NV	General Motors	Phone:	248-977-9214
			823 Joslyn Ave Pontiac, MI 48340-2925	E-mail:	khaled.zreik@gm.com
	Grewe, Jake	NV	Lubrizol	Phone:	
			Wickliffe	E-mail:	Jake.Grewe@Lubrizol.com
	McCullum, Clarence	✓	Richfield	Phone:	313 378 8643
			Xinjiang, China	E-mail:	clarence.mccullum@richfield.com

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Present	Name	Voting Non-Voting	Company Name Company Address	Contact information	
GMP ✓	Garrett Parker	NV	Lubrizol	Phone:	440- 227- 8017
			Wickliffe	E-mail:	garrett.parker@lubrizol.com
BPT	B2M TRANSUE	NV	TMC	Phone:	
				E-mail:	BPT@ASTMTMC.ORG
CS	Chad Steele	NV	BA5F	Phone:	
				E-mail:	chad.steele@basf.com
				Phone:	
				E-mail:	
				Phone:	
				E-mail:	

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Present	Name	Voting Non-Voting	Company Name Company Address	Contact information	
				Phone:	
				E-mail:	
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