

L-42 Surveillance Panel Meeting Minutes

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

November 12, 2025

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

A. Baldrica (Chrysan)	S. Jetter (Exxon Mobil)	A. Schweitzer (Shell)
D. Beck (TMC)*	A. Lange (SwRI)	K. Streck (BP Castrol)
D. Bell (Afton)	J. Morris (International)	A. Stone (Afton)*
B. Campbell (Afton)	D. Moser (BASF)	B. Transue (TMC)
M. Caridi (BASF)	T. Muransky (AAM)	C. Vander Wal (Daimler Truck)
J. Carowick (Cummins)	R. Murray (IAR)	W. Venhoff (TMC)
H. Catania (Cummins)	G. Parker (LZ)	R. Warden (Chevron Oronite)
J. Grewe (LZ)	M. Portell (IAR)	J. Westmoreland (LZ)
A. Goyal (BASF)	M. Sangpeal (Afton/C)	P. Wright (SwRI)
Z. Hunt (VBASE)	N. Schaup (LZ)	

Call to Order

Review of Agenda

The meeting agenda is attached.

Review of Membership

Changes to voting member list: Remove M. Portell, add R. Murray (IAR)

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

Motion: T. Muransky

Second: A. Goyal

All in favor, no objections, no abstentions.

Approval of Meeting Minutes

Meeting minutes for approval:

▲ “20250813_SP” → August 13, 2025 – Surveillance Panel Meeting – Plymouth, MI

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

Motion: T. Muransky

Second: N. Schaup

All in favor, no objections, no abstentions.

Action Item Review

Action items from May:

- Next-Gen L-42 Test Hardware
 - ▲ T. Gibson to inquire within Dana about next gen hardware development progress.
 - Status: Meeting with Dana scheduled for 12/2
- Referencing Requirement Clarification
 - ▲ W. Venhoff to continue work on table.
 - Status: In progress
- L-42-1 Development
 - ▲ M. Sangpeal to begin drafting L-42-1 procedure.
 - Status: In progress
- Add Build Specs to Future Test Axle Orders
 - ▲ T. Gibson to identify relevant drawings / versions within Dana.
 - Status: Remains open

Next-Gen L-42 Test Hardware

T. Gibson set up a meeting with Dana to discuss progress. Meeting is scheduled at 2:00pm EST on 12/2/25. M. Sangpeal has forwarded the invite to the SP.

Referencing Requirement Clarification

W. Venhoff created a table that helps to clarify the complex referencing requirements of the L-42 test. The table contents will be discussed further during the upcoming L-42-1 conference call.

Action Item: W. Venhoff to complete table.

L-42-1 Development

An MS Word version of D7452 was received from ASTM, first draft is complete. Primary units will be changed from Imperial to SI. The driveshaft torque meter requirements will be generalized.

D7452-24a calls out Memo 94-200 in section 10.1 for approved gear batches and test targets. That document is no longer used. Correct information is stored in the Control Chart Guidelines (LTMS) document, which is located on the TMC website.

A motion was made to remove reference to Memo 94-200 in section 10.1, and to replace with the following verbiage: "See Control Chart Guidelines (LTMS), located on the TMC website, for approved gear batches and test targets."

Motion: A. Lange

Second: N. Schaup

All in favor, no objections, no abstentions.

Action Item: M. Sangpeal to set up conference call to review first draft of L-42-1 test method.

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. There have been no submissions to date.

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.

No further updates were presented. Additional discussion will occur during upcoming conference call with Dana.

New/Open Business

No new business was identified.

Adjournment

A motion was made to adjourn.

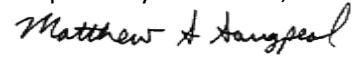
Motion: T. Muransky

Second: C. Vander Wal

All in favor, no objections, no abstentions.

Meeting adjourned.

Respectfully submitted,

A handwritten signature in black ink that reads "Matthew A. Sangpeal". The signature is written in a cursive, flowing style.

Matt Sangpeal

L-42 Surveillance Panel Chairman



L-42 Surveillance Panel Meeting

ASTM D7452

Intertek PSI

Plymouth Township, MI

November 12, 2025

1:30 – 2:30 PM EST

Passion for Solutions™

Agenda

-  **Call to Order**
-  **Agenda**
-  **Membership Review & Update**
-  **Approval of Meeting Minutes**
 -  “20250813 SP” – Intertek PSI, Plymouth, MI
-  **Action Item Review**
-  **Next-Gen L-42 Test Hardware Update**
-  **Referencing Requirements Clarification**
-  **L-42-1 Development Updates**
-  **Call for New Reference Oil**
-  **Add build specs to future test axle orders**
-  **New Issues**
-  **Adjournment**

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
▲ Micheal Portell:	Intertek Reagan Murray
▲ Payton Wright:	SwRI
▲ Trevor Gibson:	Dana
▲ Rebecca Warden:	Chevron-Oronite
▲ Andrew Smith:	Infineum
▲ Camden Vander Wal:	Daimler Truck
▲ Addison Schweitzer:	Shell
▲ Clarence McCollum:	Richful

Approval of Meeting Minutes

SP Meeting Minutes

- ▲ “20250813 SP” → August 13, 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

Next-Gen L-42 Test Hardware

- ▲ T. Gibson to inquire within Dana about next gen hardware development progress.

Referencing Requirements Clarification

- ▲ W. Venhoff to continue work on table.

L-42-1 Development

- ▲ M. Sangpeal to begin drafting L-42-1 procedure.

Add Build Specs to Future Test Axle Orders

- ▲ T. Gibson to identify relevant drawings / versions within Dana.

Next-Gen L-42 Hardware Update (No updates since Aug.)

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

Meeting scheduled 12/2 2:00 pm est

- ▲ Will forward to distribution list

Reference Requirement Clarification

- 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 underway

▲ Stand alone from D7452 (ala L-37-1)

📈 Imperial or SI units?

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.

📈 Driveshaft Torque Meter Update?

6.7 *Torque Meter*—Include in the test equipment a torque meter installed in the drive shaft (see Figs. A6.3-A6.5) to measure the torque applied to the pinion. Install a Himmelstein inline torque meter Model numbers MCRT28061T(1-4) or MCRT2661TN(1-4)^{9,10} without a foot mount and a range of 10 000 lb-in. (1130 N·m) shall be installed to measure pinion torque. Additional suffix letters only indicate allowable options.

6.8 *Signal Conditioning*—Use a Himmelstein Models 701 or 711 strain gage conditioner for signal conditioning. Set the low pass cut-off frequency at 10 Hz.

▲ Allow a more modern transducer, ex. HBM T12 or T40?

📈 TMC Memo 94-200 correct?

▲ Approved hardware batches / targets

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
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Present	Name	Voting Non-Voting	Company Name Company Address	Contact information	
				Phone:	E-mail:
	Aguirre, Nancy	NV	Intertek Automotive Research 5404 Bandera Rd. San Antonio, TX 78238		nancy.aguirre@intertek.com
	Beck, Dylan	NV	ASTM Test Monitoring Center 203 Armstrong Drive Freeport, PA 16229	724-355-1854	dib@astmtmc.org
	Bell, Don	NV	Afton Chemical 500 Spring St. Richmond, VA 23219	804-788-6332	don.bell@aftonchemical.com
	Bender, Tobias	NV	Fuchs Lubricants 17050 Lathrop Ave Harvey, IL 60426	708-737-1681	Tobias.Bender@fuchs.com
	Burgman, Maxim	NV	Fuchs Lubricants 17050 Lathrop Ave Harvey, IL 60426	248-846-3120	maxim.burgman@fuchs.com

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	Campbell, Bob	NV	Afton Chemical	Phone: 804-788-5340
			500 Spring St. Richmond, VA 23219	E-mail: Bob.Campbell@aftonchemical.com
	Caridi, Margaret	NV	BASF	Phone: 914-785-2336
			500 White Plains Rd Tarrytown, NY 10591	E-mail: margaret.caridi@basf.com
	Carowick, Jessica	V	Cummins	Phone: 248-872-3055
			2135 W. Maple Rd Troy, MI 48084	E-mail: Jessica.Carowick@cummins.com
	Catania, Hailey	NV	Cummins-Meritor	Phone: 248-821-9862
			2135 W. Maple Rd Troy, MI 48084	E-mail: Hailey.Catania@cummins.com
	Cereghino, Brian	NV	IPAC Inc.	Phone:
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Present	Name	Voting Non-Voting	Company Name Company Address	Contact information	
				Phone:	E-mail:
	Charron, Michael	NV	Southwest Research Institute 6220 Culebra Rd. San Antonio, TX 78238	832-444-2180	michael.charron@swri.org
	Clark, Jeff	NV	ASTM Test Monitoring Center 203 Armstrong Drive Freeport, PA 16229	412-365-1032	jac@astmtmc.org
	Comfort, Allen	V	US Army DEVCOM	586-282-4225	allen.s.comfort.civ@army.mil
	De La Fuente, Hector	NV	Chevron Oronite	210-867-8612	hdelafuente@chevron.com
	Fry, Enia	NV	Daimler Truck	313-802-2835	enia.fry@daimlertruck.com

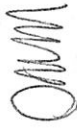
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Present	Name	Voting Non-Voting	Company Name Company Address	Contact information	
	Gibson, Trevor	V	Dana Incorporated	Phone:	419-386-9783
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	Grewe, Jake	NV	The Lubrizol Corporation	Phone:	
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	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
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	Haynes, Troy	NV	IPAC Inc.	Phone:	
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	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
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	Joy, Tisha	NV	BASF	Phone: 914-785-2206
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	Kostan, Travis	NV	Southwest Research Institute	Phone: 210.522.2407
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	Mosher, Donna	NV	BASF	Phone: 269-217-1715
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	Portell, Micheal	NV	Intertek Automotive Research	Phone:	210-896-8012
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	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
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	Schweitzer, Addison	NV	Shell	346-549-2481	Addison.Schweitzer@shell.com
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	Transue, Brad	NV	ASTM Test Monitoring Center 203 Armstrong Drive Freeport, PA 16229		bpt@astmtmc.org
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	Vander Wal, Camden		Daimler Truck / Detroit Diesel	Phone: 616-431-1836
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	Warden, Rebecca	V	Chevron Oronite	Phone: 830-865-6771
			4502 Centerview, Suite 210 San Antonio, TX 78228	E-mail: Rebecca.Warden@chevron.com
	Wright, Payton		Southwest Research Institute	Phone:
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	Yucebilgic, Fatih	NV	Fuchs Lubricants	Phone: 708-539-0252
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	Zarins, George	NV	AAM 1840 Holbrook Detroit, MI	586-854-8810	george.zarins@aam.com
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	Baldrici Anthony	NV	Chrysan Industries 14707 Keel St, Plymouth MI	248-720-9503	abaldrici@chrysanindustries.com
	Murray, Reagan	V	Intertek 5404 Undera Rd, San Antonio TX 78238	261-818-1847	Reagan.Murray@Intertek.com
	Westmoreland, Jonathan	NV	Lubrizol	440-336-6947	Jonathan.Westmoreland@Lubrizol.com

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				Phone:	E-mail:
K3	Kevin Streck	NV	BP Castrol	440-424-1751	Kevin.streck@bp.com
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				E-mail:	
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