

L-42 Surveillance Panel Meeting Minutes

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

February 11, 2026

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

A. Arnold (Lubrizol)	Z. Hunt (VBASE)	S. Thrash (US Army)
D. Beck (TMC)	J. Janca (Lubrizol)	B. Transue (TMC)
D. Bell (Afton)	S. Jetter (Exxon Mobil)	D. Uy (Shell)
T. Bender (Fuchs)	A. Lange (SwRI)	C. Vander Wal (Daimler Truck)
B. Campbell (Afton)	J. Morris (Int'l Motors)	W. Venhoff (TMC)
H. Catania (Cummins)	D. Moser (BASF)	R. Warden (Chevron Oronite)
A. Comfort (US Army)	T. Muransky (Dauch)	J. Westmoreland (LZ)
T. Gibson (Dana)	R. Murray (IAR)	P. Wright (SwRI)
J. Grewe (LZ)	M. Portell (IAR)	G. Zarins (Dauch)
A. Goyal (BASF)	M. Sangpeal (Afton/C)	
D. Horvath (Afton)	N. Schaup (LZ)	

Call to Order

Review of Agenda

The meeting agenda is attached.

Review of Membership

Changes to voting member list: Replace A. Goyal with M. Caridi (BASF)

Change of Company Name: AAM to Dauch

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

Motion: N. Schaup

Second: T. Gibson

All in favor, no objections, no abstentions.

Approval of Meeting Minutes

Meeting minutes for approval:

▲ "20251112_SP" → November 12, 2025 – Surveillance Panel Meeting – Plymouth, MI

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

Motion: T. Muransky

Second: A. Lange

All in favor, no objections, no abstentions.

Action Item Review

Action items from November:

- Next-Gen L-42 Test Hardware
 - ▲ T. Gibson to inquire within Dana about next gen hardware development progress.
 - Status: Meeting with Dana held on 12/2
- Referencing Requirement Clarification
 - ▲ W. Venhoff to continue work on table.
 - Status: Draft of Section 9 and table complete.
- L-42-1 Development
 - ▲ M. Sangpeal to set up conference call to review first draft of L-42-1 test method.
 - Status: Changes to draft in progress

Next-Gen L-42 Test Hardware

T. Gibson held a conference call on 12/2/25 at 2:00 pm EST with Dana and SP to discuss progress.

Notes from the call:

- Design of the new gears is complete (face mill to face hob)
- Ready to manufacture prototypes
- Off-Highway contact within Dana no longer works there (explains the delay)
- Need new commercial person within Dana to take over project
- Can the existing forging design work with the new gear design?
- Need to re-locate heat of steel from last order

T. Gibson continues to work within Dana to establish a new project lead, which will likely be part of the Dana Aftermarket group.

Action Item: T. Gibson to update SP when more information becomes available.

Referencing Requirement Clarification

W. Venhoff created a table that helps to clarify the complex referencing requirements of the L-42 test. He also edited Section 9 of D7452 to further clarify requirements. These edits and changes will be reviewed in the upcoming conference call to be scheduled by M. Sangpeal.

L-42-1 Development

Work continues on the MS Word version of D7452 from ASTM. Primary units have been changed from Imperial to SI. The driveshaft torque meter requirements will be generalized. Graphs and charts that contain Imperial units will be replaced with new images from the L-42-1 test report (once available). Drawings and figures that contain dimensional information for test rig components will be removed from D-procedure and added to the TMC database (like how L-60-1 is currently handled).

Action Item: M. Sangpeal to schedule conference call to share edits of L-42-1 procedure within two weeks. W. Venhoff will also share edits to Section 9 of D7452 and the reference requirements table during this meeting.

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.

Upper Scoring Limit for Reference Tests

R. Warden shared that PD4000 contains an upper limit of 30% for Average Reference Scoring of the 3-test calibration sequence. A question was raised about where this limit should be documented, or if it is needed at all. TMC pointed out that Shewhart limits already in place define the upper and lower threshold of acceptable scoring. The upper limit is currently 32.9. The committee decided to recommend elimination of the limit in PD4000, which will be handled by the LRI committee.

New/Open Business

None.

Adjournment

A motion was made to adjourn.

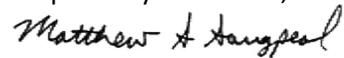
Motion: N. Schaup

Second: P. Wright

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

February 11, 2026

2:00 – 3:00 PM EST

Passion for Solutions™

Agenda

- 📈 Call to Order
- 📈 Agenda
- 📈 Membership Review & Update
- 📈 Approval of Meeting Minutes
 - ▲ “20251112 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
- 📈 Upper Scoring Limit for Reference Tests
- 📈 New Issues
- 📈 Adjournment

L-42 SP Voting Members

 Steve Jetter:	Exxon Mobil
 Wes Venhoff:	TMC
 Allen Comfort:	US Army
 Arjun Goyal: M. Caridi	BASF
 Troy Muransky:	AAM Dauch
 Jessica Carowick:	Cummins
 Matt Sangpeal:	Afton Chemical (Chair)
 Nick Schaup:	Lubrizol
 Reagan Murray:	Intertek
 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

- ▲ “20251112 SP” → November 12, 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 hold meeting with Dana and SP about next gen hardware development progress on 12/2.

Referencing Requirements Clarification

- ▶ W. Venhoff to complete table.

L-42-1 Development

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

Next-Gen L-42 Hardware Update

Conference call held 12/2/25

- ▲ Dana and SP members attend

Design of the new gears is complete

- ▲ Face mill to face hob
- ▲ Ready to manufacture prototype

Off-Highway contact within Dana no longer works there

Need new commercial person to take over project

Can the existing forging design work with the new gear design?

Need to re-locate heat of steel from last order

Reference Requirement Clarification

Section 9 edits (see draft document)

Calibration Type	Oil Type	Test Key	Frequency	Test Keys Used for Shock Series Torque Validity Determination
4-test sequence	Pass	A	Per section 9.4 of the procedure	Average of A, B, C
	Pass	B		
	Pass	C		
	Discrimination	D		
Single Test	Pass	E	every 3mos/20 non-reference tests	Average of B, C, E
Single Test	Pass	F	every 3mos/20 non-reference tests	Average of C, E, F
Single Test	Discrimination ^A	G	every 6mos/80 non-reference tests	Average of C, E, F
Single Test	Pass	H	every 3mos/20 non-reference tests	Average of E, F, H
^A To be run consecutively with single test "pass" reference oil run				

L-42-1 Development Updates – Procedure Drafting

MS Word version of D7452 received from ASTM

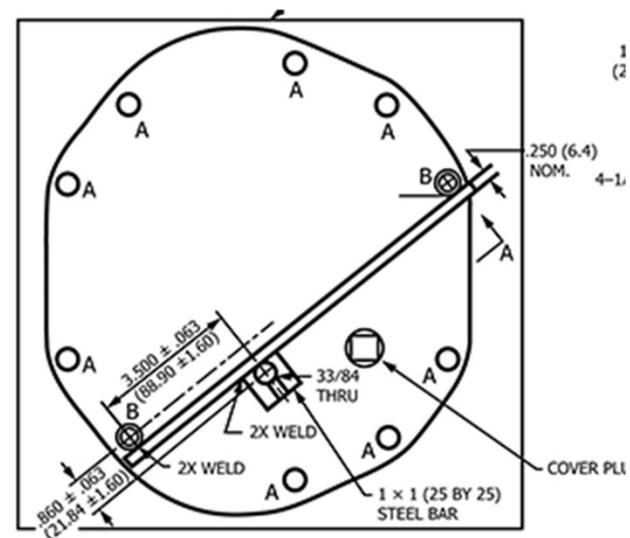
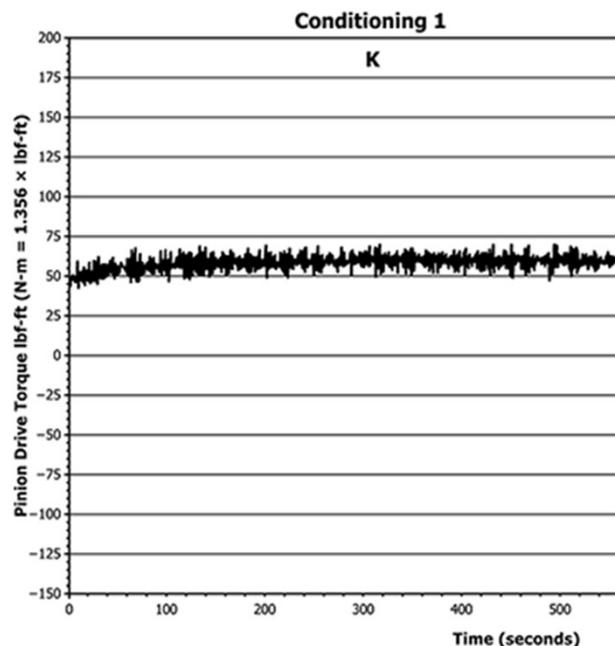
Rework to create L-42-1 version underway

SI units

- Text in document body converted
- Should figures be changed as well?
 - Would need different editing software

Driveshaft Torque Meter verbiage generalized

TMC Memo 94-200 to be removed



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

Upper Scoring Limit for Reference Tests

▲ 30% max avg. scoring for 3-test calibration sequence (PD4000)

▲ Should this limit be in PD4000 or D7452?

For the L-42 tests, the following exceptions apply:

- If any test of the 3-test calibration sequence exceeds a 30% score level and passes the LTMS severity guidelines, the test will be considered acceptable by the Committee.
- If the average of the 3-test calibration sequence is below 30% scoring and all tests have passed the LTMS severity guidelines, the average score value of the 3 calibration tests will be used as the pass/fail for that calibration period.
- If any test of the 3-test calibration sequence does not meet the LTMS requirements, that test will be considered statistically unacceptable and cannot be used for test stand calibration or for the 3-test average in generating the pass/fail limit. More calibration tests may be performed to replace ones that did not meet the LTMS requirements. If the

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test stand is adjusted to achieve a nominal score level less than 30%, a complete new calibration sequence must be performed.

- When the average of a 3-test calibration sequence exceeds 30% scoring, that calibration sequence is not acceptable for determining the non-reference oil test pass/fail limit."

New Issues



Motion to Adjourn

Thanks!

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Intertek PSI, Plymouth, MI and Microsoft Teams Virtual Meeting
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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
	Baldrice, Anthony	NW	Chrysan Industries	Phone:	248-720-9503
			14707 Keel St, Plymouth MI	E-mail:	abaldrice@chrysanindustries.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
TB	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
	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
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
	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
				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
JG	Grewe, Jake	NV	The Lubrizol Corporation	Phone:	
				E-mail:	Jake.Grewe@Lubrizol.com
Lg	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 2000 Town Center, Suite 1160 Southfield, MI 48075	Phone:	248-514-2551
				E-mail:	dan.horvath@aftonchemical.com
24	Hunt, Zach	NW	VBASE Oil Company <i>657 S. Mechanic St. Pendleton, SC 29670</i>	Phone:	864-502-2321 x 226
				E-mail:	hunt@vbaseoil.com
	Jetter, Steve	V	Exxon Mobil 245 Hickory Corner RD East Windsor, NJ 08520	Phone:	848-214-3869
				E-mail:	steven.m.jetter@exxonmobil.com
	Jordan, Brad	NV	Shell 2084 Ditchley Rd Kilmarnock, VA 22482	Phone:	804-516-1238
				E-mail:	brad.jordan@shell.com

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	Joy, Tisha	NV	BASF	Phone:	914-785-2206
			E-mail:	tisha.joy@basf.com	
	Kostan, Travis	NV	Southwest Research Institute	Phone:	210.522.2407
			E-mail:	travis.kostan@swri.org	
	Lange, Anthony	NV	Southwest Research Institute	Phone:	210.522.2671
			6220 Culebra Rd. San Antonio, TX 78238	E-mail:	anthony.lange@swri.org
	McCollum, Clarence	V	Richful	Phone:	313.378.8643
			Xinxiang, China	E-mail:	clarence.mccollum@richful.com
	Morris, Jeanelle	NV	Navistar <i>International Motors, LLC</i>	Phone:	331-332-1661
			2701 Navistar Dr Lisle, IL 60532	E-mail:	jeanelle.morris@navistarinternational.com

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Present	Name	Voting Non-Voting	Company Name Company Address	Contact information	
DM	Mosher, Donna	NV	BASF	Phone:	269-217-1715
			100 Park Ave Florham Park, NJ 07932	E-mail:	donna.mosher@basf.com
RM	Murray, Reagan	V	Intertek Automotive Research	Phone:	210-818-1847
			5404 Bandera Rd. San Antonio, TX 78238	E-mail:	Reagan.Murray@Intertek.com
RM	Muransky, Troy	V	AAM Dauch	Phone:	734-564-8406
			1840 Holbrook Ave Detroit, MI 48212	E-mail:	troy.muransky@aam.com
	Parker, Garrett	NV	The Lubrizol Corporation	Phone:	440.227.8017
				E-mail:	garrett.parker@lubrizol.com
MPP	Portell, Micheal	NV	Intertek Automotive Research	Phone:	210-896-8012
			5404 Bandera Rd. San Antonio, TX 78238	E-mail:	micheal.portell@intetek.com

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ms	Sangpeal, Matt	V/Chair	Afton Chemical	Phone:	804-788-5364
			500 Spring St. Richmond, VA 23219	E-mail:	matt.sangpeal@aftonchemical.com
NS	Schaup, Nick	V	The Lubrizol Corporation	Phone:	616-710-2546
			29400 Lakeland Boulevard Wickliffe, OH 44092	E-mail:	Nick.Schaup@Lubrizol.com
	Schweitzer, Addison	V	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
	Streck, Kevin	NW	BP Castrol	Phone:	440-424-1751
				E-mail:	Kevin.Streck@bp.com

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Present	Name	Voting Non-Voting	Company Name Company Address	Contact information	
B	Transue, Brad	NV	ASTM Test Monitoring Center	Phone:	
			203 Armstrong Drive Freeport, PA 16229	E-mail:	bpt@astmtmc.org
DU	Uy, Dairene	NV	Shell	Phone:	281-544-6781
				E-mail:	dairene.uy@shell.com
CWD	Vander Wal, Camden	V	Daimler Truck / Detroit Diesel	Phone:	616-431-1836
			13400 Outer Dr West Redford, MI 48239	E-mail:	camden.vander_wal@daimlertruck.com
WV	Venhoff, Wes	V	ASTM Test Monitoring Center	Phone:	
			203 Armstrong Drive Freeport, PA 16229	E-mail:	wvn@astmtmc.org
RW	Warden, Rebecca	V	Chevron Oronite	Phone:	830-865-6771
			4502 Centerview, Suite 210 San Antonio, TX 78228	E-mail:	Rebecca.Warden@chevron.com

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Present	Name	Voting Non-Voting	Company Name Company Address	Contact information	
PW	Westmoreland, Jonathan	NV	The Lubrizol Corporation	Phone:	440-336-6947
				E-mail:	Jonathan.Westmoreland@Lubrizol.com
PW	Wright, Payton	V	Southwest Research Institute	Phone:	
			6220 Culebra Rd San Antonio, TX 78238	E-mail:	Payton.Wright@swri.org
	Yucebilgic, Fatih	NV	Fuchs Lubricants	Phone:	708-539-0252
			17050 Lathrop Ave Harvey, IL 60426	E-mail:	fatih.yucebilgic@fuchs.com
GZ	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

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JJ	Janca, Justin	NV	Lubrizonl	Phone:	216-789-5073
				E-mail:	justin.janca@lubrizonl.com
AA	Arnold, Alex	NV	Lubrizonl	Phone:	630-561-0634
				E-mail:	alexander.arnold@lubrizonl.com
SJT	Steven Thrush	NV	US ARMY	Phone:	
				E-mail:	steven.j.Thrush.civ@ ARMY.MIL
				Phone:	
				E-mail:	
				Phone:	
				E-mail:	