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Committee D02 on PETROLEUM PRODUCTS AND LUBRICANTS

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May 15th, 2023

Reply to:
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Afton Chemical Corporation
500 Spring St.
Richmond, VA 23219
(804) 788-5364
matt.sangpeal@aftonchemical.com

ASTM D02.B0.03 L-42 Surveillance Panel
Members and Guests:

Attached for your review and comment are the unconfirmed minutes of the:

May 10, 2023 L-42 Surveillance Panel Meeting (Intertek AR, Plymouth, MI and Virtual Meeting – Microsoft Teams)

Please direct any corrections or comments to my attention.

Very Respectfully,

Matt Sangpeal, Chairman
L-42 Surveillance Panel

L-42 Surveillance Panel Meeting Minutes

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

May 10, 2023

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

N. Ariemma (Lubrizol)	H. De La Fuente (Oronite)*	M. Portell (Intertek) *
R. Banas (Exxon-Mobil)	K. Drlja (Lubrizol)	M. Sangpeal (Afton/C)
D. Beck (TMC)	J. LaBond (Cummins-Meritor)	E. Sattler (US Army)
D. Bell (Afton)	A. Lange (Intertek)	N. Schaup (LZ)
T. Bender (Fuchs)	J. Morris (Navistar)	W. Venhoff (LZ)
M. Caridi (BASF)	S. Moyer (TMC)*	F. Yucebiligic (Fuchs)
J. Carter (Cummins-Meritor)	C. Mueller (SwRI)	A. Zyski (Dana)
A. Comfort (US Army)	T. Muransky (AAM)	

Call to Order

Review of Agenda

The meeting agenda is attached.

Review of Membership

N. Schaup was already added as a voting member, but documentation was not updated. Documentation has been corrected.

Approval of Meeting Minutes

Meeting minutes for approval:

▲ “20230208_SP” → February 8, 2023 – Surveillance Panel Meeting – Warrendale, PA

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

Motion: A. Zyski

Second: J. Carter

All in favor, no objections, no abstentions.

TMC Memo 23-011 Review

The Semi-Annual reference report issued by TMC was reviewed. Pinion scoring severity and precision remained within control limits. No major issues were reported.

L-42-1 Development

C. Mueller gave a brief update on SwRI’s progress on electric L-42-1 test development. One additional donated axle was sent to SwRI to replace a defective unusable unit. Data will be shared at the August S.P. meeting.

2023 Hardware Order

M. Sangpeal gave an update on Dana's progress with the next hardware order. Axles are still on target to be assembled in early June, 2023. Pilot axles will be completed by June 9 and need to be testing as quickly as possible. The pilot batch testing will be split between SwRI and Intertek AR. Five axles will be sent to each lab. At least two passing reference oils and one discrimination oil will be run by each lab. Next update meeting scheduled for May 22.

New/Open Issues

None.

Adjournment

A motion was made to adjourn.

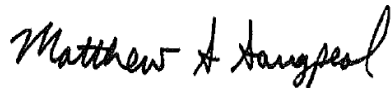
Motion: A. Lange

Second: A. Comfort

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 style with a large initial 'M' and 'S'.

Matt Sangpeal

L-42 Surveillance Panel Chairman



L-42 Surveillance Panel Meeting

ASTM D7452

Intertek AR

Plymouth, MI

May 10, 2023

1:00 – 1:30 PM EDT

Passion for Solutions™

Agenda

 **Call to Order**

 **Agenda**

 **Membership Review & Update**

 **Approval of Meeting Minutes**

▲ 20230208 SP Meeting – PRI Headquarters: Warrendale, PA

 **TMC Memo 23-011 Review**

 **L-42-1 Development Updates**

▲ Update from SwRI

 **2023 Hardware Order**

 **New Issues**

 **Adjournment**

L-42 SP Voting Members

 Rob Banas:	Exxon Mobil
 Dylan Beck:	TMC
 Allen Comfort:	US Army
 Arjun Goyal:	BASF
 Troy Muransky:	AAM
 Jason Carter:	Cummins-Meritor
 Matt Sangpeal:	Afton Chemical (Chair)
 Robert Slocum:	Lubrizol *Change to Nick Schaup
 Anthony Lange:	Intertek
 Caroline Louis:	SwRI *Change last name to Mueller
 Amy Zyski:	Dana
 Rebecca Warden:	Chevron Oronite

Approval of Meeting Minutes

SP Meeting Minutes

- ▲ “20230208_SP” → February 8, 2022 – Surveillance Panel Meeting – PRI Headquarters, Warrendale, PA and Virtual Meeting via Microsoft Teams

**Test Monitoring Center**

200 Armstrong Drive, Westport, PA 19380, USA

KMA 2499991-010
478-365-1010

MEMORANDUM: 23-011
DATE: April 25, 2023
TO: Matthew Sangpeal, Chairman, L-42 Surveillance Panel
FROM: Dylan Beck *djb Beck*
SUBJECT: L-42 Reference Oil Testing from October 1, 2022 through March 31, 2023

Attached is a summary of reference oil testing activity this period.

DJB/djb/mem23-011.djb.doc

cc: Jeff Clark
Sean Moyer
L-42 Surveillance Panel
<https://www.astmtmc.org/fp/docs/gear/142/semiannualreports/142-04-2023.pdf>

Distribution: email

L-42-1 Development Update

 **Quick update from SwRI on progress**

 **Donated axles**

▲ Afton shipped one more C1L446-P8AD132 to replace defective unit

 **Next steps?**

2023 Hardware Order: Recap

- ▲ **Three labs will purchase hardware in 2023**
- ▲ **\$3266 each (~35% increase from 2020)**
- ▲ **650 total axles ordered**
- ▲ **8-month lead time from receipt of POs**
- ▲ **Dana will be using a different steel supplier and a different forge facility**
 - ▲ Dana has worked with both suppliers in the past, just not with L-42 hardware
 - ▲ Same team within Dana will be managing order

2023 Hardware Order: Recap

02/06/2023 Update Conference Call

- ▲ Weekly meetings w/in Dana to keep project moving forward
- ▲ Steel for forgings located, due to arrive at Dana Ft. Wayne plant May 1
- ▲ Tubing due to arrive at Dana Lafayette plant May 1
- ▲ All material expected at Dana Lugoff by June 1
 - Assembly to begin June 5
 - ~2 working weeks to build axles
 - All other assembly will halt during build process
- ▲ Build and ship by end of June
 - Pilot batch of 10 will go to one lab
 - Need to decide which one
 - Set up overnight shipment to validate hardware
- ▲ Dana will continue to monitor steel shipments and update as needed
- ▲ Next update meeting in ~2 months

2023 Hardware Order

05/05/2023 Update Conference Call

- ▲ 2-3 internal meetings per week to monitor progress
- ▲ Material continues to be delivered to assembly plant in Lugoff, SC
 - Still waiting for R&Ps and housing tubes
- ▲ Target Pilot Batch Assembly Completion Date: June 9
- ▲ Assembly line will be shut down until Pilot performance approval is granted

Panel must decide how Pilot Axles will be tested

- ▲ All 10 to one lab or split between 3 labs?
- ▲ Historically, one lab would perform all Pilot testing
- ▲ Dana prefers that one lab do all testing, but is willing to split up if deemed necessary

New Issues



Thanks!



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**L-42 Surveillance Panel Membership/Attendance
Intertek AR, Plymouth, MI and Microsoft Teams Virtual Meeting
May 10, 2023**

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
NA	Ariemma, Nick	NV	The Lubrizol Corporation	Phone:	
			29400 Lakeland Boulevard Wickliffe, OH 44092	E-mail:	Nick.Ariemma@Lubrizol.com
BB	Banas, Rob	V	ExxonMobil Product Solutions	Phone:	678-493-3930
			535 Thomas Lane Waleska, GA 30183	E-mail:	rob.a.banas@exxonmobil.com
DB	Beck, Dylan	V	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

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Present	Name	Voting Non-Voting	Company Name Company Address	Contact information	
TB	Bender, Tobias	NV	Fuchs Lubricants	Phone:	708-737-1681
			17050 Lathrop Ave Harvey, IL 60426	E-mail:	Tobias.Bender@fuchs.com
	Camposo, Lucas	NV	Evonik	Phone:	215-706-5809
			723 Electronic Dr Horsham, PA 19044	E-mail:	lucas.camposo@evonik.com
MC	Caridi, Margaret	NV	BASF	Phone:	914-785-2336
			500 White Plains Rd Tarrytown, NY 10591	E-mail:	margaret.caridi@basf.com
JC	Carter, Jason	V	Cummins-Meritor	Phone:	248-435-1544
			2135 W. Maple Rd Troy, MI 48084	E-mail:	Jason.Carter@meritor.com
	Cereghino, Brian	NV	IPAC Inc.	Phone:	
				E-mail:	bcereghino@ipac-inc.com



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Present	Name	Voting Non-Voting	Company Name Company Address	Contact information	
	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 CCDC	Phone:	586-282-4225
				E-mail:	allen.s.comfort.civ@army.mil
K.D.	Drlja, Kristijan	NV	The Lubrizol Corporation	Phone:	440-391-6374
			29400 Lakeland Boulevard Wickliffe, OH 44092	E-mail:	krdr@lubrizol.com
	Goyal, Arjun	V	BASF	Phone:	914-785-2083
			500 White Plains Rd Tarrytown, NY 10591	E-mail:	arjun.goyal@basf.com

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	Grundza, Rich	NV	ASTM Test Monitoring Center	Phone:	412-365-1031
			203 Armstrong Drive Freeport, PA 16229	E-mail:	reg@astmtmc.org
	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
	Jordan, Brad	NV	Shell	Phone:	804-516-1238
			2084 Ditchley Rd VA 22482	E-mail:	brad.jordan@shell.com

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	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
	LaBond, Jessica	NV	Cummins-Meritor	Phone:	248-872-3055
				2135 W. Maple Rd Troy, MI 48084	E-mail:
	Lange, Anthony	V	Intertek Automotive Research	Phone:	210-634-1103
				5404 Bandera Rd. San Antonio, TX 78238	E-mail:

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cel	Louis, Caroline	V	Southwest Research Institute	Phone:	210-522-2671
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jml	Morris, Jeanelle	NV	Navistar	Phone:	331-332-1661
			2701 Navistar Dr Lisle, IL 60532	E-mail:	jeanelle.morris@navistar.com
	Mosher, Donna	NV	BASF	Phone:	269-217-1715
			100 Park Ave Florham Park, NJ 07932	E-mail:	donna.mosher@basf.com
Mr	Muransky, Troy	V	AAM	Phone:	734-564-8406
			1840 Holbrook Detroit, MI	E-mail:	troy.muransky@aam.com
	Neil, Suzanne	NV	Daimler Trucks/Detroit Diesel	Phone:	
				E-mail:	suzanne.neal@daimler.com

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Virtual	Portell, Michael	NV	Intertek Automotive Research	Phone:	210-896-8012
			5404 Bandera Rd. San Antonio, TX 78238	E-mail:	michael.portell@intetek.com
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			500 Spring St. Richmond, VA 23219	E-mail:	matt.sangpeal@aftonchemical.com
ES	Sattler, Eric	NV	CCDC-GVSC	Phone:	586-282-2272
			Warren, MI	E-mail:	eric.r.sattler.civ@army.mil
NS	Schaup, Nick	V	The Lubrizol Corporation	Phone:	
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	Schweitzer, Addison	NV	Shell	Phone:	346-549-2481
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	Slocum, Robert	NV	The Lubrizol Corporation	Phone:	440-347-5102
			29400 Lakeland Boulevard Wickliffe, OH 44092	E-mail:	robert.slocum@lubrizol.com
	Thrash, Steven	NV	US Army CCDC	Phone:	586-282-5170
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	Uy, Dairene	NV	Shell	Phone:	281-544-6781
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WV	Venhoff, Wes	NV	The Lubrizol Corporation	Phone:	440-347-4879
			29400 Lakeland Boulevard Wickliffe, OH 44092	E-mail:	wes.venhoff@lubrizol.com
	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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	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
BY	Zyski, Amy	V	Dana Incorporated	Phone:	419-887-3432
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Virtual	DeLaFuente, Hector	NV	Chevron Dronite	Phone:	
				E-mail:	

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Present	Name	Voting Non-Voting	Company Name Company Address	Contact information	
Virtual	Moyer, Sean	NV	TMC	Phone:	
				E-mail:	
				Phone:	
				E-mail:	
				Phone:	
				E-mail:	
				Phone:	
				E-mail:	
				Phone:	
				E-mail:	

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				Phone:	
				E-mail:	
				Phone:	
				E-mail:	
				Phone:	
				E-mail:	

