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Committee D02 on PETROLEUM PRODUCTS AND LUBRICANTS

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August 13th, 2020

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

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

August 12, 2020 L-42 Surveillance Panel Meeting (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

Virtual Meeting – Microsoft Teams

August 12, 2020

Attendees: voting members in **bold**

R. Banas (Exxon Mobil)	P. Kanga (Exxon Mobil)	E. Sattler (US Army)
D. Beck (TMC)	J. LaBond (Meritor)	R. Slocum (LZ)
D. Bell (Afton)	A. Lange (Intertek)	D. Smith (Intertek)
K. Drlja (LZ)	D. Moser (BASF)	W. Venhoff (LZ)
A. Goyal (BASF)	T. Muransky (AAM)	R. Warden (SwRI)
D. Horvath (Afton)	M. Sangpeal (Afton/C)	A. Zyski (Dana)

Call to Order

Review of Agenda

The meeting agenda is attached.

Review of Membership

No membership changes were needed.

Approval of Meeting Minutes

Meeting minutes for approval:

- "20200513_SP" → May 13, 2020 – Virtual Surveillance Panel Meeting – Skype
- "20200722_Teleconference_Minutes" → July 22, 2020 – Virtual L-42-1 Taskforce Meeting – WebEx
- "20200804_SP" → August 4, 2020 – Virtual L-42 Hardware Purchase Meeting – WebEx

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

Motion: W. Venhoff

Second: A. Lange

All in favor, no objections, no abstentions.

L-42-1 Development

M. Sangpeal reviewed what was discussed during the L-42-1 Taskforce conference call held on July 22. SwRI has an L-42 test stand fitted with an electric input motor. They have agreed to donate rig time to develop an electric version of the test. R. Warden stated that initial testing will be on shakedown axles. The magnitude of shock loading possible with the electric motor will be measured and reported to the SP. The other three labs agreed to donate left over axles to this effort:

Afton: several C1L680/P8T025A axles available

Intertek: 2 axles available (batch unknown)

Lubrizol: agreed to check on inventory and report back

W. Venhoff stated that ideally all development efforts would be on the same batch of axles.

New Hardware Order

M. Sangpeal reviewed what was discussed during the conference call held on August 4. The dialogue was around the 2020 L-42 hardware purchase (see attached presentation for details).

New/Open Issues

No new issues.

Adjournment

A motion was made to adjourn.

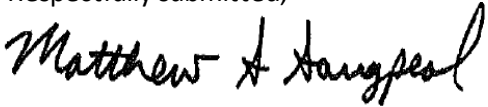
Motion: T. Muransky

Second: W. Venhoff

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, slightly slanted style.

Matt Sangpeal

L-42 Surveillance Panel Chairman



L-42 Surveillance Panel Meeting

ASTM D7452

Virtual Meeting

August 12, 2020

2:30 pm - 3:00 pm EST

Passion for Solutions™




Agenda

Call to Order



Agenda

Membership Review & Update

Approval of Meeting Minutes

-  20200513 SP Meeting
-  20200722 L-42-1 Taskforce Teleconference
-  20200804 Hardware Purchase Teleconference

L-42-1 Development

-  Planned testing development
-  Hardware donation

2020 Hardware Order

New Issues

Adjournment

L-42 SP Voting Members

 Rob Banas:	ExxonMobil
 Dylan Beck:	TMC
 Mike Cabaj:	Linamar
 Allen Comfort:	US Army
 Arjun Goyal:	BASF
 Troy Muransky:	AAM
 Jessica LaBond:	Meritor
 Matt Sangpeal:	Afton Chemical (Chair)
 Robert Slocum:	Lubrizol
 Anthony Lange:	Intertek
 R. Warden:	SwRI
 Amy Zyski:	Dana

Approval of Meeting Minutes

SP Meeting Minutes

- ▲ “20200513_SP” → May 13, 2020 – Virtual Surveillance Panel Meeting – Skype
- ▲ “20200722_Teleconference_Minutes” → July 22, 2020 – Virtual L-42-1 Taskforce Meeting – WebEx
- ▲ “20200804_SP” → August 4, 2020 – Virtual L-42 Hardware Purchase Meeting – WebEx

L-42-1 Development Taskforce Meeting

L-42-1 Taskforce Conference Call July 22, 2020

Attendees

- ▲ D. Beck (TMC)
- ▲ J. Clark (TMC)
- ▲ A. Goyal (BASF)
- ▲ A. Lange (Intertek)
- ▲ M. Sangpeal (Afton/C)
- ▲ D. Schwenk (Afton)
- ▲ R. Slocum (LZ)
- ▲ W. Venhoff (LZ)
- ▲ R. Warden (SwRI)
- ▲ A. Zyski (Dana)

L-42-1 Development Taskforce Meeting

- ▲ Past development efforts were reviewed
- ▲ Agreed to keep using Dana 44 axle for electric stand development
- ▲ SwRI has a test rig with electric input motor, eddy current absorbers, and L-42 spring plates
- ▲ SwRI will donate rig time and investigate impact of each phase of the L-42 test on scoring
- ▲ Hardware is required for this work, need donations from other labs

L-42-1 Development – Hardware Donation

Surplus hardware available to donate to development effort

- ▲ Afton: Several C1L680, P8T025A
- ▲ Intertek?
- ▲ LZ?

Quantities donated by each lab should be equal (if possible)

L-42 2020 Hardware Order

 **Conference call held on August 4, 2020 to discuss single lab hardware order**

 **Discussion around pilot batches:**

- ▶ Only intended to provide general indication of larger batch performance
- ▶ Past performance was not always the same as that of the bulk batch
- ▶ No industry requirement for pilot batch
- ▶ Any data generated from testing pilot axes is not used in establishing reference oil targets for that batch
- ▶ Optional and used mainly for purchasing contracts to protect the buyer if performance is not satisfactory
- ▶ Afton has the option to test a pilot batch in this order
- ▶ No other labs will be required to test pilot axes

L-42 2020 Hardware Order

Discussion around hardware batch approval:

- ▶ Afton will need to run 3 passing oils and 1 discrimination oil with the final hardware
- ▶ The results must fall within the acceptable limits of the reference oil target
- ▶ The test stand may need to be adjusted to hit these targets
- ▶ The targets will need to be approved by the panel via vote
- ▶ They will most likely carry over from the current hardware batch
- ▶ No other labs will need to test the final batch of hardware, as Afton will be the only lab using it
- ▶ The hardware will then become approved and added to the LTMS document

PO to be issued to Dana soon

New Issues



Thanks!



Passion for Solutions™

L-42 Surveillance Panel Membership/Attendance
Virtual Meeting, Microsoft Teams
August 12, 2020

Present	Name	Voting Non-Voting	Company Name Company Address	Contact information	
	Aguirre, Nancy	NV	Intertek Automotive Research 5404 Bandera Rd. San Antonio, TX 78238	Phone:	
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	Barrera, Tony	NV	Intertek Automotive Research 5404 Bandera Rd. San Antonio, TX 78238	Phone:	210-523-4653
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X	Beck, Dylan	V	ASTM Test Monitoring Center 6555 Penn Ave Pittsburg, PA 15206	Phone:	724-355-1854
				E-mail:	djb@astmtmc.cmu.edu
X	Bell, Don	NV	Afton Chemical 500 Spring St. Richmond, VA 23219	Phone:	804-788-6332
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L-42 Surveillance Panel Membership/Attendance
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August 12, 2020

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			723 Electronic Dr Horsham, PA 19044	E-mail:	lucas.camposo@evonik.com
	Clark, Jeff	NV	ASTM Test Monitoring Center	Phone:	412-365-1032
			6555 Penn Ave Pittsburg, PA 15206	E-mail:	jac@astmtmc.cmu.edu
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**L-42 Surveillance Panel Membership/Attendance
Virtual Meeting, Microsoft Teams
August 12, 2020**

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L-42 Surveillance Panel Membership/Attendance
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X	Sangpeal, Matt	V/Chair	Afton Chemical	Phone:	804-788-5364
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