



Address 100 Barr Harbor Drive
PO Box C700
W. Conshohocken, PA
19428-2959 | USA

Phone 610.832.9500
Fax 610.832.9666
Web www.astm.org

Committee D02 on PETROLEUM PRODUCTS AND LUBRICANTS

Chairman: KENNETH O. HENDERSON, Cannon Instrument Co., 2139 High Tech Road, State College, PA 16803, (814) 353-8000, Fax: (814) 353-8007, e-mail: kenohenderson@worldnet.att.net
First Vice-Chairman: BEN R. BONAZZA, TI Group Automotive Systems, Caro Research Center, 326 Green Street, Caro, MI, 48723 (989) 673-8181 ext. 227, Fax: (989) 673-3241, e-mail: bbonazza@us.tiauto.com
Second Vice-Chairman: JANET L. LANE, ExxonMobil Research & Engrg., 600 Billingsport Rd, Paulsboro, NJ 08066-0480 (856) 224-3302, Fax: (856) 224-3616, e-mail: janet.l.lane@exxonmobil.com
First Secretary: RALPH A. CHERRILLO, Shell Global Solutions (US) Inc., Westhollow Tech Ctr., 3333 Highway 6 South, Houston, TX 77082 (281) 544-8789, Fax: (281) 544-8150, e-mail: ralph.cherrillo@shell.com
Second Secretary: MICHAEL A. COLLIER, Petroleum Analyzer Co. LP, PO Box 206, Wilmington, IL 60481, (815) 458-0216, Fax: (815) 458-0217, e-mail: macvarlen@aol.com
Staff Manager: DAVID R. BRADLEY, (610) 832-9681, Fax: (610) 832-9668, e-mail: dbradley@astm.org

July 31st, 2019

Reply to:
Eric Donovan
Afton Chemical Corporation
500 Spring St.
Richmond, VA 23219
(804) 788-5097
(804) 788-6239 [FAX]
eric.donovan@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 8, 2019 Surveillance Panel Meeting (Automation Alley – Troy, MI)

Please direct any corrections or comments to my attention.

Very Respectfully,

Eric Donovan, Chairman
L-42 Surveillance Panel

L-42 Surveillance Panel Meeting Minutes

Automation Alley – Troy, MI

May 8, 2019

Attendees: voting members in **bold**, * indicates called in via teleconference

D. Beck (TMC)	T. Joy (BASF)	D. Smith (Intertek)
D. Bell (Afton)	P. Kanga (ExxonMobil)	R. Slocum (LZ)
M. Cabat (Linamar)	B. Kearney (Afton)	J. Souchik (Evonik)
L. Camposo (Evonik)	T. Kuchta (LZ)	M. Stevens (SwRI)
A. Comfort (Army)	A. Lange (Intertek)	M. Tabbi (IPAC)
E. Donovan (Afton/C)	D. Mosher (BASF)	W. Venhoff (LZ)
K. Drlja (LZ)	J. Morris (Navistar)	A. Zyski (Dana)
F. Farber (TMC)	T. Muransky (AAM)	
A. Goyal (BASF)	M. Sangpeal (Afton)	

Call to Order

Review of Agenda

The meeting agenda is attached.

Review of Membership

E. Donovan suggested the addition of A. Zyski (Dana) due to her involvement with the SP and being an LRI reviewer. Motion to add A. Zyski as a voting member was made by D. Smith, second by M. Stevens. Unanimous approval, no abstentions.

Approval of Meeting Minutes

Meeting minutes for approval:

- "20190213_SP" → February 13, 2019 – Warrendale, PA

Motion to approve by M. Stevens, second by T. Muransky to approve meeting minutes as presented. Unanimous approval, no abstentions.

L-42-1 Development

E. Donovan stated that Afton has not been able to perform more development due to rig availability. Once the test rig becomes available for more development, Afton will continue and share progress with the panel.

Drive-by-wire throttle

R. Slocum reiterated that Lubrizol has success with a cheap and readily available control card that moved the drive-by-wire throttle blade as desired. However no further development time has been available to make more progress.

TMC 113 Dropout / New Discrimination Oil Development

The SP discussed acceptance testing for TMC 119. E. Donovan restated that all agreed to run one test on a referenced test stand for a total of four (4) runs for approval. Labs can run this test as a 2nd discrimination oil run during a 4 test calibration sequence or any time during a reference period. D. Beck mentioned that TMC currently has 35 USG remaining of TMC 113.

E. Donovan shared that Afton ran one test on a referenced stand which resulted in EOT pinion scoring of 95 and EOT ring scoring of 77. M. Stevens shared that SwRI ran one test which resulted in EOT pinion scoring of 58 and EOT ring scoring of 51. The two remaining labs will run their tests as time allows.

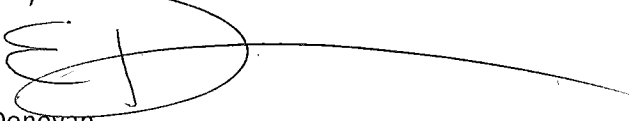
New/Open Issues

No new issues were raised at this time.

Adjournment

Motion by M. Stevens, second by D. Smith. All in favor, meeting adjourned.

Respectfully submitted,

A handwritten signature in black ink, appearing to be 'Eric Donovan', written over a horizontal line that extends to the right.

Eric Donovan

L-42 Surveillance Panel Chairman



L-42 Surveillance Panel Meeting

Automation Alley

Troy, MI

May 8, 2019











1:30 pm - 2:00 pm EST

Passion for Solutions™

Agenda

- ▲ Call to Order
- ▲ Agenda
- ▲ Membership Review & Update
- ▲ Approval of Meeting Minutes
- ▲ L-42-1 Development
- ▲ Drive-by-wire throttle update
- ▲ New/Open Issues
 - ▲ TMC 113 dropout / New discrimination oil development
- ▲ Adjournment

L-42 SP Voting Members

-  **Rob Banas – ExxonMobil**
-  **Allen Comfort – US Army**
-  **Troy Muranky – AAM →**
-  **Eric Donovan – Afton Chemical (Chair)**
-  **Arjun Goyal – BASF**
-  **Dylan Beck – TMC**
-  **Jule Rucker – Meritor**
-  **Dale Smith – Intertek**
-  **Robert Slocum – Lubrizol**
-  **Mary Stevens – SwRI**

Approval of Meeting Minutes

SP Meeting Minutes

- ▲ “20190213_SP” → February 13, 2019 – Warrendale, PA

L-42-1 Development

Summary

- ▶ Electric T-rig (input and outputs)
- ▶ Dana 44 mounted without springs

Goal is to have the rig follow L-42 setpoints first then use mathematical model for setpoints

Development to date

- ▶ Data from L-42 run was used to create 100 Hz setpoints for initial L-42-1 testing
- ▶ Initial testing shows good progress, fine tuning still needed to hit exact setpoints consistently

On hold at Afton for the near future due to rig availability

Drive-by-wire throttle

- ▶ During the August 2017 meeting, the panel discussed options of a drive-by-wire throttle body to replace the current, old design using the Jordan.
- ▶ R. Slocum (Lz) has attempted to use a current Corvette throttle body and control card.
- ▶ Updates?

TMC 113 Dropout / New Discrimination Oil Development

From the August 2017 meeting:

- ▲ Additive dropout was found in latest QC testing
- ▲ Gear oil drums are mixed prior to shipment. Homogenization may be limiting the impact that this has on the performance of the oil.

From November 2017 meeting:

- ▲ Not possible to make new drum of TMC 113
 - 52 USG remaining – 104 tests worth
- ▲ Afton and Lubrizol to research possible new discrimination oils

From May 2018 meeting:

- ▲ Lubrizol has direction towards potential new discrimination oil
- ▲ The SP clarified that the new oil needs to consistently have double the scoring of the current passing oil

From August 2018 meeting:

- ▲ Lubrizol to blend 55 USG drum and send to TMC
- ▲ Each lab will run this oil on a currently referenced test stand and report results

From November 2018 meeting:

- ▲ A drum of oil was sent to the TMC the week of 11/5/18
- ▲ D. Beck will let E. Donovan know when the oil is ready to be shipped to labs

February 2019 meeting:

- ▲ Acceptance testing for TMC 119
 - 1 test on a currently referenced test stand per lab?



Passion for Solutions™

TMC 113 Dropout / New Discrimination Oil Development

From February 2019 meeting:

- ▲ Acceptance testing for TMC 119
 - 1 test on a currently referenced test stand per lab. Run as 2nd discrimination run in 4 test calibration sequence or any time during a reference period

May 2019

- ▲ Updates on TMC 119 runs from each lab?
 - Afton – EOT pinion 95, EOT ring 77
 - Intertek –
 - Lubrizol –
 - SwRI –

New/Open Issues

Thanks!



Passion for Solutions™

L-42 Surveillance Panel Membership/Attendance
Automation Alley - Troy, MI
May 8, 2019

Initials	Name	Voting Non-Voting	Company Name Company Address	Contact information	
	Aguirre, Nancy	NV	Intertek Automotive Research 5404 Bandera Rd. San Antonio, TX 78238	Phone:	
				E-mail:	nancy.aguirre@intertek.com
	Banas, Rob	V	ExxonMobil Fuels, Lubricants & Specialties 114 Arcadia Park Dr. Canton, GA 30114	Phone:	678-493-3930
				E-mail:	rob.a.banas@exxonmobil.com
	Barrera, Tony	NV	Intertek Automotive Research 5404 Bandera Rd. San Antonio, TX 78238	Phone:	210-523-4653
				E-mail:	tony.barrera@intertek.com
✓ DB	Beck, Dylan	V	ASTM Test Monitoring Center 6555 Penn Ave Pittsburg, PA 15206	Phone:	724-355-1854
				E-mail:	djb@astmtmc.cmu.edu
✓ DB	Bell, Don	NV	Afton Chemical 500 Spring St. Richmond, VA 23219	Phone:	804-788-6332
				E-mail:	don.bell@aftonchemical.com

L-42 Surveillance Panel Membership/Attendance
Automation Alley - Troy, MI
May 8, 2019

Initials	Name	Voting Non-Voting	Company Name Company Address	Contact information	
A.C.	Comfort, Allen	V	US Army TARDEC CCDC	Phone:	586-282-4225
				E-mail:	allen.s.comfort.civ@mail.mil
	Clark, Jeff	NV	ASTM Test Monitoring Center	Phone:	412-365-1032
			6555 Penn Ave Pittsburg, PA 15206	E-mail:	jac@astmtmc.cmu.edu
E.D.	Donovan, Eric	V/Chair	Afton Chemical	Phone:	804-788-5097
			500 Spring St. Richmond, VA 23219	E-mail:	eric.donovan@aftonchemical.com
K.A.	Drlja, Kristijan	NV	The Lubrizol Corporation	Phone:	440-391-6374
			29400 Lakeland Boulevard Wickliffe, OH 44092	E-mail:	krdr@lubrizol.com
	Duho, Kwame	NV	Valvoline	Phone:	
				E-mail:	jkduho@ashland.com

L-42 Surveillance Panel Membership/Attendance
Automation Alley - Troy, MI
May 8, 2019

Initials	Name	Voting Non-Voting	Company Name Company Address	Contact information	
	Dwornick, Bridget	NV	US Army TARDEC	Phone:	586-282-4221
			6501 E. 11 Mile Rd. RDTA-DP MS 110 Warren, MI 48397	E-mail:	bridget.l.dwornick.civ@mail.mil
	Ebner, Alex	NV	The Lubrizol Corporation	Phone:	440-347-2664
			29400 Lakeland Boulevard Wickliffe, OH 44092	E-mail:	alex.ebner@lubrizol.com
	Foecking, Brian	NV	The Lubrizol Corporation	Phone:	440-347-2130
			29400 Lakeland Boulevard Wickliffe, OH 44092	E-mail:	lojf@lubrizol.com
	Gottwald, Thomas	NV	Afton Chemical	Phone:	804-788-5230
			500 Spring St. Richmond, VA 23219	E-mail:	thomas.gottwald@aftonchemical.com
PRESENT BUT NOT SIGNED	Goyal, Arjun	V	BASF	Phone:	914-785-2083
			500 White Plains Rd Tarrytown, NY 10591	E-mail:	arjun.goyal@basf.com

L-42 Surveillance Panel Membership/Attendance
Automation Alley - Troy, MI
May 8, 2019

Initials	Name	Voting Non-Voting	Company Name Company Address	Contact information	
	Jackson, Matt	NV	Southwest Research Institute	Phone:	210-522-6981
				E-mail:	matt.jackson@swri.org
✓ TJ	Joy, Tisha	NV	BASF	Phone:	914-785-2206
				E-mail:	tisha.joy@basf.com
✓ PRK	Kanga, Percy	NV	ExxonMobil Research & Engineering	Phone:	908-335-3780
			1545 Rte. 22 East Clinton, NJ 08801	E-mail:	percy.r.kanga@exxonmobil.com
✓ WAK	Kearney, Bill	NV	Afton Chemical	Phone:	248-350-0640
			2000 Town Center, Suite 1160 Southfield, MI 48075	E-mail:	bill.kearney@aftonchemical.com
	Koehler, Brian	NV	Southwest Research Institute	Phone:	210-522-3588
			P.O. Drawer 28510 San Antonio, TX 78228-0510	E-mail:	Bkoehler@swri.org

L-42 Surveillance Panel Membership/Attendance
Automation Alley - Troy, MI
May 8, 2019

Initials	Name	Voting Non-Voting	Company Name Company Address	Contact information	
	Kvasnicka, Kevin	NV	Afton Chemical 500 Spring St. Richmond, VA 23219	Phone:	804-788-5320
				E-mail:	kevin.kcasnicka@aftonchemical.com
AZ	Lange, Anthony	NV ✓	Intertek Automotive Research 5404 Bandera Rd. San Antonio, TX 78238	Phone:	210-634-1103
				E-mail:	anthony.lange@intertek.com
	Lonsway, Chris	NV	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, OH 44092	Phone:	440-347-4517
				E-mail:	chris.lonsway@lubrizol.com
	Minke, Andreas	NV	BASF	Phone:	
				E-mail:	andreas.minke@basf.com
	Milner, Jeff	NV	Tianhe Chemical	Phone:	804-252-6928
				E-mail:	jlmilner@tianhe-us.com

L-42 Surveillance Panel Membership/Attendance
Automation Alley - Troy, MI
May 8, 2019

Initials	Name	Voting Non-Voting	Company Name Company Address	Contact information	
✓ <i>Donna</i>	Mosher, Donna	NV	BASF	Phone:	269-217-1715
			100 Park Ave Florham Park, NJ 07932	E-mail:	donna.mosher@basf.com
✓ <i>Troy</i>	Muransky, Troy	V	AAM	Phone:	734-564-8406
			1840 Holbrook Detroit, MI	E-mail:	troy.muransky@aam.com
	Parke, Scott	NV	ASTM Test Monitoring Center	Phone:	412-365-1036
			6555 Penn Ave Pittsburg, PA 15206	E-mail:	sdp@astmtmc.cmu.edu
	Rucker, Jule	V	Meritor	Phone:	248-435-1430
			2135 W. Maple Rd Troy, MI 48084	E-mail:	jule.rucker@meritor.com
	Sattler, Eric	NV	US Army	Phone:	586-282-2272
			Warren, MI	E-mail:	eric.r.sattler.civ@mail.mil

L-42 Surveillance Panel Membership/Attendance
Automation Alley - Troy, MI
May 8, 2019

Initials	Name	Voting Non-Voting	Company Name Company Address	Contact information	
	Schwenk, Daniel	NV	Afton Chemical	Phone:	804-788-6326
			500 Spring St. Richmond, VA 23219	E-mail:	daniel.schwenk@aftonchemical.com
✓ AS	Smith, Dale	V	Intertek Automotive Research	Phone:	412-855-6854
			5404 Bandera Rd. San Antonio, TX 78238	E-mail:	dale.smith@intertek.com
✓ RS	Slocum, Robert	V	The Lubrizol Corporation	Phone:	440-347-5102
			29400 Lakeland Boulevard Wickliffe, OH 44092	E-mail:	robert.slocum@lubrizol.com
✓ MS	Stevens, Mary	V	Southwest Research Institute	Phone:	210-522-2208
				E-mail:	mary.stevens@swri.org
	Thrash, Steven	NV	US Army TARDEC	Phone:	586-282-5170
			6501 E. 11 Mile Rd. Warren, MI 48397	E-mail:	steven.i.thrash.civ@mail.mil

**L-42 Surveillance Panel Membership/Attendance
Automation Alley - Troy, MI
May 8, 2019**

Initials	Name	Voting Non-Voting	Company Name Company Address	Contact information	
	Tian, Johnny	NV	Afton Chemical	Phone:	+86 18251155728
			26 Pingsheng Road Suzhou, China	E-mail:	gangqiang.tian@aftonchemical.com
WV	Venhoff, Wes	NV	The Lubrizol Corporation	Phone:	440-347-4879
			29400 Lakeland Boulevard Wickliffe, OH 44092	E-mail:	wve@lubrizol.com
	Warden, Rebecca	NV	Southwest Research Institute	Phone:	210-522-6266
				E-mail:	rebecca.warden@swri.org
	Zreik, Khaled	NV	General Motors	Phone:	248-977-9214
			823 Joslyn Ave Pontiac, MI 48340-2925	E-mail:	khaled.zreik@gm.com
WZ	Zyski, Amy	NV	Dana Incorporated	Phone:	419-887-3432
			3939 Technology Dr Mauvee, OH 43537	E-mail:	amy.zyski@dana.com

JM Morris
Jeanette

NAVISTAR
2701 NAVISTAR DR
Lisle IL 60532

331 332 1661
jeanette.morris@navistar.com

L-42 Surveillance Panel Membership/Attendance
Automation Alley - Troy, MI
May 8, 2019

Initials	Name	Voting Non-Voting	Company Name Company Address	Contact information	
✓ MT	Makouye Tabbi	Non	IPAC INC 12730 SPECTRUM LANE	Phone:	800-608-5213
			MIDLOTHIAN, VA 23112	E-mail:	mtabibi@ipac-inc.com
✓ ff	FRANK FARBER	NON	TMC	Phone:	412 365 1030
				E-mail:	fmf@astmfmccmw.edu
✓ TK	Tyler Kuchta	Non	The Lubrizol Corporation	Phone:	440-347-5868
			29400 Lakeland Blvd Wilkeffe OH 44092	E-mail:	tyler.kuchta@lubrizol.com
✓ MC	MIKE CABAT	VOTING	LINAMAR	Phone:	(313) 820-0119
			32233 W. 8 MILE RD LIVONIA, MI 48152	E-mail:	MICHAEL.CABAT@LINAMAR.COM
✓ MS	Matt Sampel	Non	Afton	Phone:	
				E-mail:	

✓ LC	LUCAS CAMPOSO	NON	} EVONIK OIL ADDITIVES 723 Electronic Dr Horseshan, PA 19044	(215) 706 5804 LUCAS.CAMPOSO@EVONIK.COM joan.souchik@evonik.com
✓ JS	Joan Souchik	NON		