



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, 3457 WOODVALLEY DRIVE, LAPEER, MI 48446 (810) 664-6769
e-mail: bbonazza@charter.net
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: Michael.collier@pacpl.com
Staff Manager: DAVID R. BRADLEY, (610) 832-9681, Fax: (610) 832-9668, e-mail: dbradley@astm.org

February 4th, 2013

Reply to:
Wes Venhoff
The Lubrizol Corporation
29400 Lakeland Blvd.
Wickliffe, OH 44092
(440) 347-4879
(440) 347-2878 (FAX)
wve@lubrizol.com

ASTM D02.B0.03 L-37 Surveillance Panel
Members and Guests:

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

- **November 7th, 2012 Surveillance Panel Meeting (Automation Alley – Troy, MI)**

Please direct any corrections or comments to my attention.

Sincerely,

Wes Venhoff, Chairman
L-37 Surveillance Panel

**Report of Meeting
L-37 Surveillance Panel Meeting
Automation Alley
Troy, MI**

November 7th, 2012

Attendees:

SwRI -	Koehler
Lubrizol -	Venhoff , Bubonic, Gropp, Hamilton, Prengaman, Umerley
Afton -	Gottwald , Bell, Boschert, Kearney
Intertek -	Smith , Trader
US Army -	Comfort , Dwornick
TMC -	Parke
Dana -	Guzikowski
Meritor -	McGlone
ExxonMobil -	Banas , Kanga
BASF -	Greene
AAM -	Dharte
Volvo GGT -	Athey
GM -	O'Brien

Voting Members in **BOLD**

The meeting was called to order at 1:15 pm EST.

1.0 Approval of Meeting Minutes

- **August 8, 2012 (PRI Headquarters – Warrendale, PA)**

Motion # 1 → T. Gottwald / 2nd B. Koehler to approve the minutes as presented. Motion was approved with a unanimous vote, 8-0-0.

2.0 Summary of Meeting Discussions

2.1 Section 6.2.2 Axle Cover Port Requirements

Lubrizol brought up a discrepancy in this particular section of the test procedure. This section states “Axle Cover – The axle cover has a 3.5in. port installed as shown in Fig. A2.1. This allows filling the axle and provides a means for inspecting the axle after the gear conditioning phase. Install a thermocouple...” Since the axle is not filled through the port (it is filled nose down prior to the cover being installed) and the post gear conditioning phase inspection is no longer a requirement of the procedure, Lubrizol proposed the following. “Axle Cover – The axle cover may have a port installed to allow for ring gear inspection. See Fig. A2.1 for an example.”

Motion # 1 → W. Venhoff/2nd T. Gottwald to make the changes to the procedure as proposed by Lubrizol and worded above. Motion was approved with a unanimous vote, 8-0-0.

2.2 Hardware Qualification Matrix Data

The remainder of the meeting discussion focused on the hardware qualification matrix data and how we could possibly institute correction factors and/or exclusion zones to make the reference oil data fall more in line with historical results. Regarding Spalling on the non-lubrited hardware, many felt an exclusion would be too large and B. Koehler suggested possibly excluding whole entire teeth, i.e., no more than “X” teeth with spalls. J. Gropp

suggested pulling all of the data together to look at it in line with the ratings. The Chairman will compile such data and have available for the next Hardware Task Force discussion.

Two options were further discussed for Spalling. No more than three teeth spalled on passing reference oils, and a possible correction factor to bring a merit rating of 7 up to a 9.3. This approach would catch all but one passing oil, but not include any failing reference oils. This would apply to TMC 155 & TMC 151-1/-2 reference oils for Standard test conditions only.

The other concern centered around Rippling for Canadian test conditions on the non-lubrited hardware. It appears that we need a correction factor in place to bring a merit rating of 5 up to an 8. Holding another Surveillance Panel meeting was proposed and discussed by B. Koehler to review all qualification matrix hardware and to handle any correction factor/exclusion zone determinations necessary to approve this batch of hardware. It is preferred that this meeting be held prior to the end of the year. Further information to come on this subject.

3.0 Adjournment

Motion to adjourn by T. Gottwald / 2nd D. Smith. Motion was approved with a unanimous vote, 8-0-0. Meeting adjourned at 3:20 pm EST.

Respectfully submitted,

Wes Venhoff
L-37 Surveillance Panel Chairman

IND	TVERSION	PINBAT	RINGBAT	SERIALNO	MATCHNO	LTMSLAB	LTMSAPP	TESTKEY	LTMSDATE	WEAR	RIDG	RIPP	SPIT	SCOR	WEARR	RIDGR	RIPPR	SPITR	SCORR	COM1	COM2	COM3	COM4
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Non-lubrited (24 Hour Test)

152-1	STANDARD	V1L528	P4T883A	N/A	1V	B	1	89024-L37	20120825	7	10	10	9.9	10	7	10	10	9.9	10	NONLUBRITED STANDARD			
152-1	STANDARD	V1L528	P4T883A	JUSA4136	1N	D	2A	88865-L37	20120828	7	9	8	9.9	10	8	10	10	9.9	10	NONLUBRITED STANDARD			
152-1	STANDARD	V1L528	P4T883A	JUSA4567	1J	G	1	73581-L37	20120911	7	9	8	9.9	10	7	10	9	9.9	10	NONLUBRITED STANDARD			
152-1	STANDARD	V1L528	P4T883A	JUSA4112	7A	A	4	89034-L37	20121011	7	8	8	9.6	10	8	10	9	9.9	10	NONLUBRITED STANDARD			
152-1	STANDARD	V1L528	P4T883A	JUSA4128	2H	A	4	90614-L37	20121016	7	8	8	7	10	7	10	9	9.4	10	NONLUBRITED STANDARD			
152-1	STANDARD	V1L528	P4T883A	JUSA4153	1A	D	2A	88869-L37	20121029	7	8	9	9.9	10	8	10	10	9.9	10	NONLUBRITED STANDARD			
152-2	STANDARD	V1L528	P4T883A	JUSA4350	2V	D	2A	90545-L37	20121018	7	9	8	9.9	10	8	10	10	10	10	NONLUBRITED STANDARD			
152-2	STANDARD	V1L529	P4T883A	ASTM0204	0P	B	1	90765-L37	20121104	7	9	10	9.5	10	7	10	10	9.9	10	NONLUBRITED STANDARD			
152-1	CANADIAN	V1L528	P4T883A	GUSA4571	L1	G	1	73582-L37	20120914	6	9	7	9.9	10	7	10	8	9.9	10	NONLUBRITED CANADIAN			
152-1	CANADIAN	V1L528	P4T883A	JUSA4539	2J	B	1	89137-L37	20120927	6	8	5	9	10	8	9	10	9.5	10	NONLUBRITED CANADIAN			
152-1	CANADIAN	V1L528	P4T883A	N/A	0X	A	4	89032-L37	20121004	7	9	9	9.9	10	7	10	9	9.9	10	NONLUBRITED CANADIAN			
152-1	CANADIAN	V1L528	P4T883A	JUSA4365	1V	G	1	89050-L37	20121016	7	9	8	9.9	10	8	10	9	9.9	10	NONLUBRITED CANADIAN			
152-1	CANADIAN	V1L528	P4T883A	ASTM0202	0P	B	1	89138-L37	20121018	6	8	5	9.9	10	7	9	9	9.9	10	NONLUBRITED CANADIAN			
152-1	CANADIAN	V1L528	P4T883A			D														NONLUBRITED CANADIAN			
152-2	CANADIAN	V1L528	P4T883A	N/A	7C	A	4	90767-L37	20121027	7	9	9	9.9	10	7	9	9	9.9	10	NONLUBRITED CANADIAN			
152-2	CANADIAN	V1L529	P4T883A			B	1	90766-L37	20121105	6	8	5	9.9	10	7	10	10	9.9	10	NONLUBRITED CANADIAN			
134	STANDARD	V1L528	P4T883A	JUSA4559	L2	G	1	89040-L37	20120831	6	8	8	4	10	7	8	8	9.9	10	NONLUBRITED STANDARD			
134	STANDARD	V1L528	P4T883A	JUSA4519	1H	B	1	83430-L37	20120910	4	4	9	2	10	5	5	9	9.6	10	NONLUBRITED STANDARD			
134	STANDARD	V1L528	P4T883A	JUSA4336	7V	D	2A	83421-L37	20121002	6	6	9	4	10	6	7	9	9.9	10	NONLUBRITED STANDARD			
134	STANDARD	V1L528	P4T883A	JUSA4092	2P	A	4	89571-L37	20121013	6	8	9	6	10	7	10	10	9.9	10	NONLUBRITED STANDARD			
134	STANDARD	V1L528	P4T883A	060AA100-4	7J	A	4	89569-L37	20121019	6	6	7	3	10	7	8	9	9.9	10	NONLUBRITED STANDARD			
155	STANDARD	V1L528	P4T883A	JUSA4104	1C	A	4	89035-L37	20120915	6	8	8	9.9	10	8	9	9	9.9	10	NONLUBRITED STANDARD			
155	STANDARD	V1L528	P4T883A	JUSA4132	2J	D	2A	73555-L37	20120921	7	7	7	9.9	10	7	9	10	10	10	NONLUBRITED STANDARD			
155	STANDARD	V1L528	P4T883A	ASTM 0209	2A	B	1	89954-L37	20121014	7	9	10	9.9	10	9	10	10	9.9	10	NONLUBRITED STANDARD			
155	STANDARD	V1L528	P4T883A	JUSA4357	1C	G	1	89045-L37	20121014	7	9	8	9.9	10	8	10	8	9.9	10	NONLUBRITED STANDARD			
155	STANDARD	V1L528	P4T883A	N/A	1J	A	4	89036-L37	20121014	7	8	8	9.9	10	7	10	9	9.7	10	NONLUBRITED STANDARD			
155	STANDARD	V1L528	P4T883A	JUSA4361	7A	G	1	89046-L37	20121015	7	9	8	6	10	7	10	9	9.9	10	NONLUBRITED STANDARD			
155	STANDARD	V1L528	P4T883A	ASTM-0208	1L	B	1	89029-L37	20121016	7	10	10	9.7	10	9	10	10	9.9	10	NONLUBRITED STANDARD			
155	STANDARD	V1L528	P4T883A	JUSA4157	5V	D	2A	89574-L37	20121102	7	8	9	7	10	8	10	10	9.9	10	NONLUBRITED STANDARD			

IND TVERSION PINBAT RINGBAT SERIALNO MATCHNO LTMSLAB LTMSAPP TESTKEY LTMSDATE WEAR RIDG RIPP SPIT SCOR WEARR RIDGR RIPPR SPITR SCORR COM1 COM2 COM3 COM4

Both Ring and Pinion Lubrited (24 Hour Test), Reduced Load

152-1	STANDARD	V1L528	P4T883A	JUSA3988	2N	D	2A	73559-L37	20110306	7	7	9	9.9	10	8	10	10	9.9	10	LUBRITED STANDARD	REDUCED LOAD
152-1	STANDARD	V1L528	P4T883A	JUSA865XX	2N	B	1	89025-L37	20120830	5	4	9	7	10	5	6	10	9.6	10	LUBRITED STANDARD	REDUCED LOAD
152-1	STANDARD	V1L528	P4T883A	JUSA3936	1N	D	2A	88866-L37	20120912	7	8	9	9.9	10	8	10	10	9.9	10	LUBRITED STANDARD	REDUCED LOAD
152-1	STANDARD	V1L528	P4T883A	JUSA4273	0T	G	1	89049-L37	20120927	7	9	9	9.9	10	7	10	9	9.9	10	LUBRITED STANDARD	REDUCED LOAD
152-1	STANDARD	V1L528	P4T883A	JUSA3912	1A	A	4	89033-L37	20121009	7	8	8	9.9	10	8	10	10	9.9	10	LUBRITED STANDARD	REDUCED LOAD
152-1	STANDARD	V1L528	P4T883A	ASTM0163	2C	B	1	89139-L37	20121019	7	8	10	9.8	10	8	10	10	9.9	10	LUBRITED STANDARD	REDUCED LOAD
152-2	STANDARD	V1L528	P4T883A	ASTM-0246	5P	B	1	90763-L37	20121101	5	5	10	6	10	6	6	10	9.3	10	LUBRITED STANDARD	REDUCED LOAD
152-2	STANDARD	V1L528	P4T883A			A														LUBRITED STANDARD	REDUCED LOAD
152-1	CANADIAN	V1L528	P4T883A	JUSA3664	2L	A	4	83443-L37	20120830	6	8	6	9.9	10	8	9	9	9.9	10	LUBRITED CANADIAN	REDUCED LOAD
152-1	CANADIAN	V1L528	P4T883A	JUSA3672	2J	B	1	89136-L37	20120907	6	6	8	9.9	10	7	8	10	9.9	10	LUBRITED CANADIAN	REDUCED LOAD
152-1	CANADIAN	V1L528	P4T883A	JUSA4293	1L	A	4	90615-L37	20121017	6	6	6	9.6	10	6	8	8	9.4	10	LUBRITED CANADIAN	REDUCED LOAD
152-1	CANADIAN	V1L528	P4T883A			G														LUBRITED CANADIAN	REDUCED LOAD
152-1	CANADIAN	V1L528	P4T883A			D														LUBRITED CANADIAN	REDUCED LOAD
152-1	CANADIAN	V1L528	P4T883A			G														LUBRITED CANADIAN	REDUCED LOAD
152-2	CANADIAN	V1L528	P4T883A	JUSA4201	7P	A	4	90768-L37	20121029	6	7	6	10	10	7	9	9	10	10	LUBRITED CANADIAN	REDUCED LOAD
152-2	CANADIAN	V1L529	P4T883A	ASTM0247	2L	B	1	90764-L37	20121102	7	6	6	9.8	10	7	8	10	9.9	10	LUBRITED CANADIAN	REDUCED LOAD
155	STANDARD	V1L528	P4T883A	0600AA100-4	0N	A	4	82171-L37	20120902	7	9	9	9.9	10	8	9	10	9.9	10	LUBRITED STANDARD	REDUCED LOAD
155	STANDARD	V1L528	P4T883A	JUSA3668	1P	B	1	89026-L37	20120909	7	8	9	9.9	10	8	10	10	9.9	10	LUBRITED STANDARD	REDUCED LOAD
155	STANDARD	V1L528	P4T883A	JUSA4361	1A	G	1	89043-L37	20121011	7	9	8	9.9	10	7	10	8	9.9	10	LUBRITED STANDARD	REDUCED LOAD
155	STANDARD	V1L528	P4T883A	JUSA4380	2H	G	1	89044-L37	20121012	7	8	8	9.9	10	8	10	8	9.9	10	LUBRITED STANDARD	REDUCED LOAD
155	STANDARD	V1L528	P4T883A	ASTM-0162	7L	B	1	89028-L37	20121013	7	8	10	9.9	10	9	10	10	9.9	10	LUBRITED STANDARD	REDUCED LOAD
155	STANDARD	V1L528	P4T883A	JUSA3908	5J	A	4	89037-L37	20121018	6	9	9	9.9	10	8	10	10	9.9	10	LUBRITED STANDARD	REDUCED LOAD
155	STANDARD	V1L528	P4T883A			D														LUBRITED STANDARD	REDUCED LOAD
155	STANDARD	V1L528	P4T883A			D														LUBRITED STANDARD	REDUCED LOAD
134	STANDARD	V1L528	P4T883A	JUSA 5092	1X	A	4	83439-L37	20120803	6	8	6	9.4	10	7	9	9	10	10	LUBRITED STANDARD	REDUCED LOAD
134	STANDARD	V1L528	P4T883A	N/A	5P	B	1	83429-L37	20120826	6	6	9	8	10	5	6	10	9.6	10	LUBRITED STANDARD	REDUCED LOAD
134	STANDARD	V1L528	P4T883A	JUSA3680	2L	D	2A	82069-L37	20120905	6	6	7	8	10	7	7	10	9.9	10	LUBRITED STANDARD	REDUCED LOAD
134	STANDARD	V1L528	P4T883A	JUSA4109	5X	G	1	71474-L37	20121009	6	8	6	9.9	10	7	9	9	9.9	10	LUBRITED STANDARD	REDUCED LOAD

ASTM L-37 Surveillance Panel Membership/Mailing List

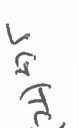
Meeting Date: November 7th, 2012

Initials*	Name	Voting Status	Company Name & Address	Phone/Email Info
AA (TC)	Athey, Allison	Voting	Volvo GGT 13302 Pennsylvania Avenue Hagerstown, Maryland 21740	Phone: 301-573-5684 Fax: E-Mail: allison.athey@volvo.com
Rob	Banas, Rob	Voting	ExxonMobil Fuels, Lubricants & Specialties 114 Arcadia Park Dr. Canton, GA 30114	Phone: 678-493-3930 Fax: E-Mail: rob.a.banas@exxonmobil.com
DB	Bell, Don	Non Voting	Afton Chemical 500 Spring Street Richmond, VA 23219	Phone: 804-788-6332 Fax: 804-788-6243 E-Mail: don.bell@aftonchemical.com
TCB	Boschert, Tom	Non Voting	Afton Chemical 500 Spring Street Richmond, VA 23219	Phone: 804-788-5202 Fax: E-Mail: tom.boschert@aftonchemical.com
	Clark, Jeff	Non Voting	ASTM Test Monitoring Center 6555 Penn Avenue Pittsburgh, Pennsylvania 15206	Phone: 412-365-1032 Fax: 412-365-1047 E-Mail: jac@astmtmc.cmu.edu
A.C.	Comfort, Allen	Voting	US Army RDECOM/TARDEC 6501 East 11 Mile road Warren, MI 48397-5000	Phone: 586-282-4225 Fax: 586-282-4244 E-Mail: allen.e.comfort@us-army.mil <i>allen.a.s.comfort.civ@mail.mil</i>
JD	Dharte, John	Voting	American Axle & Manufacturing 1 Dauch Drive Detroit, MI 48211	Phone: 313-758-4687 Fax: 313-758-4237 E-Mail: Dhartej@aam.com
BS	Dwornick, Bridget	Non-Voting	US Army RDECOM/TARDEC 6501 East 11 Mile road Warren, MI 48397-5000	Phone: 586-282-4221 Fax: 586-282-4244 E-Mail: bridget.dwornick@us.army.mil

* Initial to indicate attendance at subject meeting

ASTM L-37 Surveillance Panel Membership/Mailing List

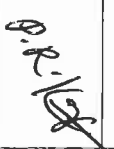
Meeting Date: November 7th, 2012

Initials*	Name	Voting Status	Company Name & Address	Phone/Email Info
	Farber, Frank	Non Voting	ASTM Test Monitoring Center 6555 Penn Avenue Pittsburgh, Pennsylvania 15206	Phone: 412-365-1030 Fax: 412-365-1047 E-Mail: fmf@astmtmc.cmu.edu
	Foeking, Brian	Non Voting	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, Ohio 44092	Phone: 440-347-2130 Fax: 440-347-9011 E-Mail: brian.foeking@lubrizol.com
	Gao, Hong	Non-Voting	Conoco Phillips 100 s Pine St. Ponca City, OK 74602	Phone: 580-767-2126 Fax: 580-767-4534 E-Mail: hong.gao@conocophillips.com
	Gottwald, Thomas	Voting	Afton Chemical 500 Spring Street Richmond, VA 23219	Phone: 804-788-5230 Fax: E-Mail: thomas.gottwald@aftonchemical.com
	Gropp, Jerry	Non Voting	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, Ohio 44092	Phone: 440-347-1223 Fax: 440-347-1555 E-Mail: jerrold.gropp@lubrizol.com
	Guzikowski, Joe	Voting	Dana Corporation Maumee, IN	Phone: Fax: E-Mail: joe.guzikowski@dana.com
	Hamilton, Larry	Non Voting	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, Ohio 44092	Phone: 440-347-2326 Fax: 440-347-2878 E-Mail: ldha@lubrizol.com
	Higuchi, Sam	Non Voting	Afton Chemical 500 Spring Street Richmond, VA 23218	Phone: 804-788-5375 Fax: 804-788-6358 E-Mail: samuel.higuchi@aftonchemical.com

* Initial to indicate attendance at subject meeting

ASTM L-37 Surveillance Panel Membership/Mailing List

Meeting Date: November 7th, 2012

Initials*	Name	Voting Status	Company Name & Address	Phone/Email Info
	Huron, John	Non Voting	Chevron Oronite Company LLC Suite 210 San Antonio, Texas 78228-1374	Phone: 210-731-5609 Fax: 210 731 5699 E-Mail: huro@chevrontexaco.com
	Jackson, Matt	Non Voting	Southwest Research Institute PO Drawer 28510 San Antonio, Texas 78228-0510	Phone: 210-522-6981 Fax: 210-522-6858 E-Mail: matt.jackson@swri.org
	Kanga, Percy	Non Voting	ExxonMobil Research & Engineering 600 Billingsport Road Paulsboro, New Jersey 08066	Phone: 856-224-2094 Fax: 856-224-3613 E-Mail: percy.r.kanga@exxonmobil.com
	Kearney, Bill	Non Voting	Afton Chemical Southfield, MI	Phone: Fax: E-Mail:
	Koehler, Brian	Voting	Southwest Research Institute PO Drawer 28510 San Antonio, Texas 78228-0510	Phone: 210-522-3588 Fax: 210-684-7523 E-Mail: bkoehler@swri.org
	Lind, Don	Non Voing	ASTM Test Monitoring Center 6555 Penn Avenue Pittsburgh, Pennsylvania 15206	Phone: 412-365-1034 Fax: 412-365-1047 E-Mail: dml@astmtmc.cmu.edu
	Lochte, Michael	Non Voting	Southwest Research Institute PO Drawer 28510 San Antonio, Texas 78228-0510	Phone: 210-522-5430 Fax: 210-684-7523 E-Mail: Mlochte@swri.org
	Marougy, Thelma	Voting	Eaton Corporation 26201 Northwestern Highway Southfield, MI 48034	Phone: 248-226-6985 Fax: 248-226-2739 E-Mail: thelmaemarougy@eaton.com

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Initials*	Name	Voting Status	Company Name & Address	Phone/Email Info
	Martin, Dan	Non Voting	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, Ohio 44092	Phone: 440-347-4723 Fax: 440-347-2878 E-Mail: dan.martin@lubrizol.com
	McGlone, Bruce	Voting	Meritor Automotive 2135 West Maple Troy, Michigan 48084	Phone: 248-435-9929 Fax: 248-435- 1111 9902 E-Mail: Bruce.McGlone@Meritor.com
	Muransky, Troy	Non Voting	Meritor Automotive 2135 West Maple Troy, Michigan 48084	Phone: 248-435-1401 Fax: 248-435-6602 E-Mail: troy.muransky@Meritor.com
	O'Brien, Cheryl	Non Voting	General Motors 823 Joslyn Ave. Pontiac, MI 48340-2925	Phone: 248-343-7347 Fax: 248-676-7146 E-Mail: cheryl.obrien@gm.com
	Pappademos, Lou	Non Voting	Dana Corporation Fort Wayne, IN	Phone: Fax: E-Mail: lou.pappademos@dana.com
	Parke, Scott	Voting	ASTM Test Monitoring Center 6555 Penn Avenue Pittsburgh, Pennsylvania 15206	Phone: 412-365-1036 Fax: E-Mail: scp@astmtmc.cmu.edu
	Radonich, Peter	Non Voting	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, Ohio 44092	Phone: 440-347-2184 Fax: 440-347-9011 E-Mail: peter.radonich@lubrizol.com
	Recinos, Will	Non Voting	Afton Chemical 500 Spring Street Richmond, VA 23218	Phone: 804-788-5323 Fax: E-Mail: william.recinos@aftonchemical.com

* Initial to indicate attendance at subject meeting

ASTM L-37 Surveillance Panel Membership/Mailing List

Meeting Date: November 7th, 2012

Initials*	Name	Voting Status	Company Name & Address	Phone/Email Info
	Sanchez, Art	Non Voting	Southwest Research Institute PO Drawer 28510 San Antonio, Texas 78228-0510	Phone: 210-522-3445 Fax: 210-680-1777 E-Mail: asanchez@swri.org
<i>DSB</i>	Smith, Dale	Voting	Intertek Automotive Research San Antonio, Texas	Phone: 412-855-6854 Fax: 210-684-6074 E-Mail: Dale.Smith@intertek.com
	Song, HaiQing	Non Voting	Research Institute of Petroleum Processing No. 18, XueYan Road, PO Box 914-19 Beijing 10083 P.R. China	Phone: 011-86-10-8236-8182 Fax: 011-86-10-6231-1290 E-Mail: songhq@ripp-sinopec.com
	Sullivan, Bill	Non Voting	William T. Sullivan, Inc. 5 Scheiber Drive Brick, NJ 08723	Phone: 908-930-3512 Fax: 267-220-7750 E-Mail: wtsullivan@comcast.net
	Thorpe, Ryan	Non Voting	Southwest Research Institute PO Drawer 28510 San Antonio, Texas 78228-0510	Phone: 210-522-6409 Fax: ryan.thorpe@swri.org E-Mail: ryan.thorpe@swri.org
<i>AT</i>	Trader, Angela	Non Voting	Intertek Automotive Research San Antonio, Texas	Phone: 210-706-1533 Fax: angela.trader@intertek.com E-Mail: angela.trader@intertek.com
<i>MC</i>	Umerley, Matt	Non Voting	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, Ohio 44092	Phone: 440-347-4589 Fax: 440-347-2878 E-Mail: mtue@lubrizol.com
<i>WVW</i>	Venhoff, Wes	Voting/Chair	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, Ohio 44092	Phone: 440-347-4879 Fax: 440-347-8061 E-Mail: wve@lubrizol.com

* Initial to indicate attendance at subject meeting

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	Xie, JingChun	Non Voting	Lanzhou Lube Oil R&D Institute No. 369 Yumen Street, XiGu District Lanshou 730060, Gansu Province P.R. China	Phone: 011-86-931-793-3713 Fax: 011-86-139-9319-2560 E-Mail: xiejingchun_rhy@petrochina.com.cn
	Zakarian, Jack	Voting	Chevron Products 100 Chevron Way Richmond, CA 94802	Phone: 510-242-3595 Fax: 510-242-3758 E-Mail: jaza@chevron.com
	Zreik, Khaled	Voting	General Motors 823 Joslyn Ave Pontiac, MI 48340-2925	Phone: 248-977-9214 Fax: 248-857-2550 E-Mail: khaled.zreik@gm.com
wp	Cris Prewgaman	NV	Lubrizol	Phone: 440-347-4725 Fax: E-Mail:
bb	BRAD Babovic	NV	Lubrizol	Phone: 440-347-5325 Fax: E-Mail:
bl	Galen Greene	V	BASF	Phone: 973-873-4816 Fax: E-Mail: galen.greene@BASF.com
				Phone: Fax: E-Mail:
				Phone: Fax: E-Mail:
				Phone: Fax: E-Mail:

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