



**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

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### **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@paclp.com  
*Staff Manager:* DAVID R. BRADLEY, (610) 832-9681, Fax: (610) 832-9668, e-mail: dbradley@astm.org

October 15<sup>th</sup>, 2012

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:

- **August 8<sup>th</sup>, 2012 Surveillance Panel Meeting (PRI Headquarters – Warrendale, PA)**

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  
PRI Headquarters  
Warrendale, PA**

*August 8th, 2012*

**Attendees:**

SwRI -	<b>Koehler</b> , Thorpe
Lubrizol -	<b>Venhoff</b> , Gropp, Hamilton, Umerley
Afton -	<b>Gottwald</b> , Bell, Boschert
Intertek -	<b>Smith</b> , Trader
TMC -	<b>Parke</b> , Clark
Meritor -	<b>McGlone</b>
ExxonMobil -	<b>Banas</b> , Kanga
Chevron -	<b>Zakarian</b>
Eaton -	<b>Marougy</b>
BASF -	<b>Greene</b>
AAM -	<b>Dharte</b>

Voting Members in **BOLD**

The meeting was called to order at 1:40 pm EDT.

**1.0 Membership Review**

**Motion # 1** → D. Smith / 2<sup>nd</sup> T. Gottwald to add **Rob Banas** from ExxonMobil Fuel, Lubricants & Specialties to voting member status. Motion was approved with a unanimous vote.

**Motion # 2** → D. Smith / 2<sup>nd</sup> T. Gottwald to add **Galen Greene** from BASF to voting member status. Motion was approved with a unanimous vote.

**2.0 Approval of Meeting Minutes**

- **May 9, 2012 (Automation Alley – Troy, MI)**

**Motion # 1** → D. Smith / 2<sup>nd</sup> B. Koehler to approve the minutes as presented. Motion was approved with a unanimous vote.

**3.0 Summary of Meeting Discussions**

**3.1 Hardware qualification matrix update**

Much of the meeting discussion centered on the qualification matrix testing for the lubrified hardware. From the previous pilot batch work completed in 2011, the 20hr. full load test version was selected as the path forward when the full production batch of hardware was available. Two labs each ran four tests on the production batch hardware, varying reference oil and test version. It was apparent from these eight tests total that something had changed from the pilot batch hardware to the full production batch hardware, particularly with the pitting/spalling distress. We started seeing failing results on pitting/spalling which did not line up with the pilot batch results. It was decided that a new path needed to be agreed upon in order to complete the hardware qualification matrix.

There were multiple discussions during this part of the meeting as to what approach the group should take. Further altering test time, test load and combinations of each were all discussed. It was decided that two tests total would be run at two different labs to see if further reducing the test time would alleviate the pitting/spalling distress. The two tests agreed to are as follows:

**SwRI:** 16hr. full torque, TMC 134 standard temperature

**Afton:** 18hr. full torque, TMC 134 standard temperature

Pending the results of these two tests, the group will either move forward with one of these two test versions or revisit the selection of the proper test version for hardware qualification matrix testing. At this point, the group is still waiting on the arrival of the non-lubricated hardware to begin the initial agreed-upon testing.

### **3.0 Adjournment**

Motion to Adjourn by B. Koehler / 2<sup>nd</sup> D. Smith. Motion was approved with a unanimous vote. Meeting adjourned at 2:25 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	
<b>Both Ring and Pinion Lubrited (24 Hour Test)</b>																								
134	STANDARD	V1L528	P4T883A	JUSA398	0P	D	2A	73551-L37	20110308	5	5	9	9.4	10	6	6	9	9.8	10	LUBRITED	STANDARD			
134	STANDARD	V1L528	P4T883A	JUSA3956	1X	B	1	75514-L37	20110311	6	4	9	8	10	7	5	9	9.9	10	LUBRITED	STANDARD			
155	STANDARD	V1L528	P4T883A	ASTM0100	5L	A	4	80859-L37	20110311	7	8	8	9.9	10	7	9	9	9.9	10	LUBRITED	STANDARD			
155	STANDARD	V1L528	P4T883A	JUSA3	0A	B	1	78147-L37	20110324	6	8	8	9.8	10	7	9	9	9.9	10	LUBRITED	STANDARD			
152-1	CANADIAN	V1L528	P4T883A	JUSA3952	0L	D	2A	80854-L37	20110311	7	7	9	9.9	10	8	10	10	10	10	LUBRITED	CANADIAN			
152-1	CANADIAN	V1L528	P4T883A	ASTM 0088	5H	A	4	80857-L37	20110312	6	7	7	9.9	10	8	9	9	9.9	10	LUBRITED	CANADIAN			
152-1	CANADIAN	V1L528	P4T883A	ASTM0087	0H	A	4	80858-L37	20110331	6	7	7	9.8	10	6	8	9	9.9	10	LUBRITED	CANADIAN			
152-1	STANDARD	V1L528	P4T883A	ASTM0093	1N	A	4	73571-L37	20110309	7	8	8	9.9	10	8	9	9	9.9	10	LUBRITED	STANDARD	RIPPS		
152-1	STANDARD	V1L528	P4T883A	JUSA3976	7A	B	1	76954-L37	20110323	3	3	9	3	10	5	5	10	9.5	10	LUBRITED	STANDARD	2_BROKEN	TEETH	
152-1	STANDARD	V1L528	P4T883A	JUSA3948	2L	D	2A	80855-L37	20110330	6	7	9	5	10	7	8	10	9.9	10	LUBRITED	STANDARD			
152-1	STANDARD	V1L528	P4T883A	N/A	0X	B	1	80862-L37	20110406	6	5	8	9.7	10	7	8	10	9.9	10	LUBRITED	STANDARD	1 BROKEN	TOOTH	
152-1	STANDARD	V1L528	P4T883A	JUSA3752	7X	D	2A	81559-L37	20110610	6	8	7	6	10	8	9	10	9.9	10	LUBRITED	STANDARD			
152-1	STANDARD	V1L528	P4T883A	ASTM 0120	7P	A	4	81562-L37	20110615	6	9	8	9.9	10	7	10	9	9.9	10	LUBRITED	STANDARD			
<b>Ring Only (24 Hour Test)</b>																								
134	STANDARD	V1L528	P4T883A	JUSA3704	2V	A	4	73563-L37	20110703	7	8	7	9.8	10	7	9	9	9.9	10	LUBRITED	RINGONLY			
134	STANDARD	V1L528	P4T883A	JUSA3696	7V	G	1	71472-L37	20110707	4	3	7	7	10	6	3	10	9.8	10	RINGONLY	BROKEN	TEETH		
134	STANDARD	V1L528	P4T883A	JUSA3692	2C	B	1	78859-L37	20110715	6	5	9	7	10	7	6	9	9.9	10	RINGONLY				
134	STANDARD	V1L528	P4T883A	N/A	0T	A	4	73564-L37	20110722	6	9	5	9.8	10	8	9	9	9.9	10	STANDARD	RINGONLY			
152-1	STANDARD	V1L528	P4T883A		2J	D	2A	81560-L37	20110625	7	8	7	9.9	10	8	10	9	9.9	10	LUBRITED	RING	ONLY		
152-1	STANDARD	V1L528	P4T883A	JUSA A3718	7P	B	1	81564-L37	20110625	6	10	10	9.9	10	7	10	10	10	10	LUBRITED	RING	ONLY		
<b>20 Hour Ring and Pinion Both Lubrited</b>																								
134	STANDARD	V1L528	P4T883A	JUSA3732	7V	G	1	71473-L37	20110721	4	4	5	6	10	4	5	4	9.7	10	20_HOUR	PINION	& RING	LUBRITED	
134	STANDARD	V1L528	P4T883A	JUSA3728	1J	B	1	78860-L37	20110802	6	6	8	9.7	10	7	7	10	9.9	10	20_HOUR	RING &	PINION		
134	STANDARD	V1L528	P4T883A	N/A	7T	A	4	73565-L37	20110809	5	5	5	9.7	10	6	7	8	9.9	10	20_HOURS	RING&PIN			
134	STANDARD	V1L528	P4T883A	JUSA3884	7X	A	4	83437-L37	20120717	6	5	8	5	10	6	6	9	9.9	10	20_HOUR	STANDARD			
134	STANDARD	V1L528	P4T883A	ASTM0160	7T	B	1	83428-L37	20120718	6	5	10	4	10	5	5	10	9.9	10	20_HOUR	STANDARD			
152-1	CANADIAN	V1L528	P4T883A		2N	D	2A	82773-L37	20110825	7	8	5	9.9	10	7	10	8	9.9	10	LUBRITED	20HR	CANADIAN		
152-1	CANADIAN	V1L528	P4T883A	ASTM-0065	0H	A	4	82173-L37	20110921	6	8	5	9.9	10	7	9	10	9.9	10	20_HR	CANADIAN			
152-1	CANADIAN	V1L528	P4T883A	ASTM0156	7P	B	1	88779-L37	20120720	6	6	7	8	10	5	8	9	8	10	20_HOUR	CANADIAN			
152-1	CANADIAN	V1L528	P4T883A	JUSA 3900	0H	A	4	83442-L37	20120720	6	4	7	5	10	5	9	10	7	10	20_HOUR	CANADIAN			
152-1	STANDARD	V1L528	P4T883A	JUSA0736	2P	B	1	83051-L37	20110716	6	9	8	9.7	10	8	10	9	9.9	10	20_HOUR	RING &	PINION		
152-1	STANDARD	V1L528	P4T883A	1XX1	2L	D	2A	82772-L37	20110810	6	8	9	9.9	10	7	10	10	9.9	10	20_HOUR	RING&PIN			
152-1	STANDARD	V1L528	P4T883A	N/A	0A	B	1	83052-L37	20110923	7	10	9	9.8	10	9	10	10	9.9	10	20_HOUR	STANDARD			
152-1	STANDARD	V1L528	P4T883A	060AA100	1L	A	4	83441-L37	20120719	7	8	8	9.5	10	8	10	9	9.9	10	20_HOUR	STANDARD			
152-1	STANDARD	V1L528	P4T883A	ASTM0161	1T	B	1	83433-L37	20120719	4	4	9	3	10	5	6	10	9.6	10	20_HOUR	STANDARD			
155	STANDARD	V1L528	P4T883A	0081	2J1	G	1	73576-L37	20110823	7	9	8	9.9	10	7	10	9	9.9	10	20_HR	STANDARD			
155	STANDARD	V1L528	P4T883A	JUSA3888	0J	A	4	80861-L37	20120721	7	8	7	9.7	10	8	10	9	9.8	10	20_HOUR	STANDARD			
155	STANDARD	V1L528	P4T883A	ASTM-0159	0T	B	1	83435-L37	20120724	6	8	7	6	10	6	9	9	9.3	10	20_HOUR	STANDARD			
<b>20 Hour Ring only Lubrited</b>																								
152-1	STANDARD	V1L528	P4T883A	JUSA-3708	2P	B	1	83050-L37	20110710	7	9	9	9.9	10	9	10	10	9.9	10	20_HOURS	RINGONLY			
<b>Both Ring and Pinion Lubrited (24 Hour Test), Reduced Load</b>																								
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	
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	

## ASTM L-37 Surveillance Panel Membership/Mailing List

Meeting Date: August 8th, 2012

Initials*	Name	Voting Status	Company Name & Address	Phone/Email Info
AA	Athey, Allison	Voting	Volvo <del>Powertrain</del> <i>GTT</i> 13302 Pennsylvania Avenue Hagerstown, Maryland 21740	Phone: 301-573-5684 Fax: E-Mail: allison.athey@volvo.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@afonchemical.com
TCB	Boschert, Tom	Non Voting	Afton Chemical 500 Spring Street Richmond, VA 23219	Phone: 804-788-5202 Fax: E-Mail: tom.boschert@afonchemical.com
JAE	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
	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.s.comfort@us.army.mil
908	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
	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
	<del>Eliot, Stephen</del>	<del>Non Voting</del>	<del>ExxonMobil Lubricants &amp; Specialties 18486 Lander Island Sq Leesburg, Virginia 20176</del>	<del>Phone: 703-669-9916 Fax: 703-669-9917 E-Mail: stephen.w.eliot@exxonmobil.com</del>
	Farber, Frank	Non Voting	ASTM Test Monitoring Center 6555 Penn Avenue Pittsburgh, Pennsylvania 15206	Phone: 412-365-1030 Fax: 412-365-1047 E-Mail: frm@astmtmc.cmu.edu

\* Initial to indicate attendance at subject meeting

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Initials*	Name	Voting Status	Company Name & Address	Phone/Email Info
	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
TE	Gottwald, Thomas	Voting	Afton Chemical 500 Spring Street Richmond, VA 23219	Phone: 804-788-5230 Fax: E-Mail: thomas.gottwald@aftonchemical.com
GR JB	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
LH	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
	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@chevrononexaco.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

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Initials*	Name	Voting Status	Company Name & Address	Phone/Email Info
	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 Voting	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
	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: 248-435-1411 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

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Initials*	Name	Voting Status	Company Name & Address	Phone/Email Info
	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: sdp@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
	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
	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-sinopet.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

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Initials*	Name	Voting Status	Company Name & Address	Phone/Email Info
ATI	Trader, Angela	Non Voting	Intertek Automotive Research San Antonio, Texas	Phone: 210-706-1533 Fax: E-Mail: angela.trader@intertek.com
wve	Venhoff, Wes	Voting/Chair	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, Ohio 44092	Phone: 440-347-4879 Fax: 440-347-2878 E-Mail: wve@lubrizol.com
	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
RB	Rob Banas	Voting?	EXxonMobil Fuels, Lubricants & Specialties 114 Arredia Park Dr. Canton, MA 01014	Phone: 678-443-3930 Fax: E-Mail: rob.a.banas@exxonmobil.com
MTUE	Matt Unerley	Non Voting	Lubrizol	Phone: 440 347 4589 Fax: E-Mail: munterley@lubrizol.com
RT	Ryan Thorpe	NV	SWRI	Phone: 210 522 6409 Fax: E-Mail: ryan.thorpe@swri.org
				Phone: Fax: E-Mail:

\* Initial to indicate attendance at subject meeting