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Committee D02 on PETROLEUM PRODUCTS AND LUBRICANTS

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October 30, 2015

Reply to:

Larry Hamilton

The Lubrizol Corporation

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Larry.hamilton@lubrizol.com

ASTM D02.B0.03 L-60-1 Surveillance Panel

Members and Guests:

Attached for your review and comments are the unconfirmed minutes of the August 12, 2015

L-60-1 Surveillance Panel meeting held at Performance Review Institute, Warrendale PA

Please direct any corrections or comments to my attention.

Sincerely,

Larry Hamilton; Chairman

L-60-1 Surveillance Panel

ASTM L-60-1 (D5704) Surveillance Panel Meeting Minutes

Warrendale PA

August 12, 2015

Meeting was called to order at AM 10:20

Attendees: voting member in **BOLD**

AAM	J. Dharte
Afton	M. Keisler ; D. Bell, T. Gottwald
AMSTA-TAR	No Rep
BASF	A. Goyal
Eaton	No Rep
ExxonMobil	R. Banas ; P. Kanga
G. M.	No Rep
Intertek	D. Smith , A. Trader
Lubrizol	L. Hamilton (Chairman) ; J. Gropp; M. Umerley, C. Pregarman, C. Lonsway
Meritor	No Rep
SwRI	R. Warden
TMC	S. Parke
Volvo	No Rep

16 members in attendance; 8 voting members present

Sign-in and review of membership

The sign-in sheets, identifying attendance and voting membership, is included; see attachment # 1

Attendance was taken and voting membership reviewed.

Arjun Goyal (BASF) stated, O. Dykhno had resigned and should be removed as voting member for BASF.

Motion by M. Keisler to add A. Goyal as voting member, 2nd by R. Warden. Approved 7-0-0

Review of Agenda

The Agenda was reviewed and is included; see attachment # 2

Approval of meeting minutes

Chairman called for a vote to accept the February 18 and May 13, 2015 Surveillance Panel Meeting Minutes.

Motion by M. Umerley to accept the minutes as submitted, 2nd by J. Dharte. Approved 8-0-0

Discussion of L-60-1 Severity and proposed Correction factors continued from the May meeting

S. Parke (TMC) presented data on Transformed vs Non-transformed (the following are highlights)

Transformed units are used for statistical analysis based on data with a normal distribution. This can add a level of confusion to our work. Should we remove transformation and apply correction factor? Parke present Control charts with and without transformation applied. It showed we lose standard deviation when we un-transform current control chart numbers. Scott used a different method for his plots ("pooled S" method).

Scott then showed Control chart with correction applied.

- October '98 > today gets correction applied (Oct '98 shows a visible severity shift on control chart)
- 151-2 gets a 0.6 added to ACV merit scale
- 148 is unchanged because targets were set before the Oct '98 shift
- Downtick in past 6 months – Intertek and SwRI running mostly RO 148
- Reference FAILS 87/670 to 95/670 (looking at all parameters)
- Original Unit Targets

L. Hamilton called for a motion based on S. Parke presentation.

R. Warden requested a postponement of a motion to give everyone time to look over the new data from S. Parke. All were in agreement.

L. Hamilton proposes that we have a motion worded based on:

- Remove the transformation from the test on all parameters
- Adopt Scotts proposed targets
- Back transform the targets for all oils that predated '98 severity shift
- Use a "pooled-S" that includes only these oils predating '98
- Adopt 0.6 ACV Correction Factor
- 151-2 new targets will be derived from data using the 0.6 correction factor for ACV
- In future reporting, the derived 0.6 correction will be applied to all data that is reported
- Argent to submit new motion wording
- Remove transformation
- New targets for 151-2
- 0.6 Correction Factor

The proposed motion was:

- 1. Remove the transformation from all test parameters*
- 2. Adopt targets presented by TMC during the 8-12-2015 meeting (see attached)*
- 3. Add 0.6 to ACV for all tests after 10/01/2015*

Chairman will follow up with a Conference call or E Ballot. ; see attachment #3

Continued discussion of Targets and Acceptance of RO 155-1

17 tests have been completed / reported to TMC. Meeting time ran out, to be continued next meeting.

New Business

There was no New Business.

Adjournment

12:29 PM

Motion by R. Warden to adjourn the meeting,

2nd by M. Keisler

Passed 8-0-0

Respectfully Submitted;



Larry Hamilton

L-60-1 Surveillance Panel Chairman

#1

ASTM L-60-1 Surveillance Panel Membership/Mailing List

Meeting Date: August 12, 2015

Present / Initials *	Name	Voting Status	Company Name & Address	Phone & Fax & E-Mail
	Aguirre, Nancy	Non-voting	Intertek Automotive Research 5404 Bandera Rd San Antonio TX 78238	Phone: 210-647-9428 Fax: E-Mail: Nancy.Aguirre@intertek.com
AB	Banas, Rob	Voting	ExxonMobil Fuels Lubricants & Specialties 114 Arcadia Park Drive Canton, GA 30114	Phone: 678-493-3930 Fax: E-Mail: rob.banas@exxonmobil.com
DCB	Bell, Don	Non-voting	Afton Chemical Corporation 500 Spring Street Richmond, Virginia 23219	Phone: 804-788-6332 Fax: 804-788-6342 E-Mail: Don.Bell@aftonchemical.com
	Boschert, Tom	Non-voting	Afton Chemical Corporation 500 Spring Street Richmond, Virginia 23219	Phone: 804-788-5202 Fax: 804-788-6342 E-Mail: Tom.Boschert@aftonchemical.com
	Chalkley, Jarrod	Non-voting	Afton Chemical Corporation 500 Spring Street Richmond, Virginia 23219	Phone: 804-788- Fax: E-Mail: Jarrod.Chalkley@aftonchemical.com
	Chambers, Harold	Non-voting	43945 Merrill Rd. Sterling Hts., MI 48314	Phone: (586) 770-4694 Fax: E-Mail: haroldchambers@gmail.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: fmf@astmtmc.cmu.edu
	Comfort, Allen	Voting	AMSTA-TR-D/210 (Allen Comfort) U S Army Tank, Automotive, and Armament Command Warren, Michigan 48397-5000	Phone: 586-282-4225 Fax: 586-282-4244 E-Mail: allen.s.comfort.civ@mail.mil
AD	Dharte, John	Voting	American Axle 1 Dauch Dr Detroit, MI 48212	Phone: 313 758-4687 Fax: 313 758 4237 E-Mail: DharteJ@aam.com
	Dwornick, Bridget	Non-voting	AMSTRD-TAR-D/210 6501 E.11 Mile Rd Warren,MI 48397-5000	Phone: 586-282-4221 Fax: 586-282-4244 E-Mail: bridget.l.dwornick@us.army.mil
	Dykhno, Olga	Voting	BASF Corporation 100 Pash Ave Florham Pash, NJ	Phone: Fax: <i>out ARJUN</i> E-Mail: olga.dykhno@basf.com <i>ARJUN GOYAL</i>

*Initials indicate that member was present

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Meeting Date: August 12, 2015

Present / Initials *	Name	Voting Status	Company Name & Address	Phone & Fax & E-Mail
<i>TG</i>	Gottwald, Thomas	Non-voting	Afton Chemical Corporation 500 Spring Street Richmond, Virginia 23219	Phone: 804-788-5230 Fax: 804-788-6358 E-Mail: thomas.gottwald@aftonchemical.com
<i>JGH</i>	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
<i>LH</i>	Hamilton, Larry	Voting	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, Ohio 44092	Phone: 440-347-2326 Fax: 440-347-2878 E-Mail: larry.hamilton@lubrizol.com
	Hobson, Kevin	Non-voting	Afton Chemical Corporation 500 Spring Street Richmond, Virginia 23219	Phone: 804-788-5375 Fax: 804-788-6358 E-Mail: kevin.hobson@aftonchemical.com
	Huron, John	Non-voting	Chevron Oronite 4502 Centerview Drive, Suite 210 San Antonio, Texas 78228	Phone: 210-731-5609 Fax: 210-731-5699 E-Mail: HURO@ChevronTexaco.com
<i>P.R.K.</i>	Kanga, Percy R.	Non-Voting	Commercial Vehicle, Marine & Gas Engine Lubricants ExxonMobil Research & Engineering 600 Billingsport Road Paulsboro, NJ. 08066	Phone: 856-224-2094 Fax: 856-224-3613 E-Mail: percy.r.kanga@exxonmobil.com
	Kearney, Bill	Non-voting	Afton Chemical Corporation 2000Town Center Southfield, MI 48075	Phone: 248-350-0640 Fax: E-Mail: bill.kearney@aftonchemical.com
<i>MSK</i>	Keisler, Marc	Voting	Afton Chemical Corporation 500 Spring Street Richmond, Virginia 23219	Phone: 804-788-5617 Fax: E-Mail: marc.keisler@aftonchemical.com
	Koehler, Brian	Non-voting	Southwest Research Institute 6220 Culebra Road Bidg.209 San Antonio, TX 78238-5166	Phone: (210) 522-3588 Fax: (210) 684-7523 E-Mail: bkoehler@swri.org
	Koglin, Cory	Non-voting	Afton Chemical Corporation 2000 Town Center Suite 1160 Southfield, MI 48075	Phone: 248-996-0386 Fax: E-Mail:
	McGlone, Bruce	Voting	Meritor 2135 West Maple Troy, Michigan 48084	Phone: 248-435-9929 Fax: 248-435-6602 E-Mail: Bruce.McGlone@meritor.com

*Initials indicate that member was present

ASTM L-60-1 Surveillance Panel Membership/Mailing List

Meeting Date: August 12, 2015

Present / Initials *	Name	Voting Status	Company Name & Address	Phone & Fax & E-Mail
	Mosher, Donna	Non-voting	Eaton Corporation 13100 E Michigan Ave Galesburg, Michigan 49053	Phone: 269-342-3039 Fax: E-Mail: donnammosher@eaton.com
	Muransky, Troy	Non-voting Alt	Meritor 2135 West Maple Troy, Michigan 48084	Phone: 248-435-1409 Fax: E-Mail: troy.muransky@meritor.com
	O'Brien, Cheryl	Non-voting	General Motors	Phone: 248-343-7347 Fax: E-Mail: cheryl.obrien@gm.com
<i>SLP</i>	Parke, Scott	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
<i>CPH</i>	Prengaman, Chris	Non-voting	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, Ohio 44092	Phone: 440-347-4225 Fax: 440-347-2878 E-Mail: chris.prengaman@lubrizol.com
	Recinos, Will	Non-voting	Afton Chemical Corporation 500 Spring Street Richmond, Virginia 23219	Phone: 804-788-5323 Fax: E-Mail: william.recinos@aftonchemical.com
	Shah, Rajesh	Non-voting	Koehler Instrument Company 1595 Sycamore Avenue Bohemia, New York 11716	Phone: 516-589-3800 Fax: 516-589-3815 E-Mail:
<i>DS</i>	Smith, Dale	Voting	Intertek Automotive Research 5404 Bandera Rd San Antonio TX 78238	Phone: 412-855-6854 Fax: E-Mail: Dale.Smith@intertek.com
	Sullivan, Bill	Non-voting	WTSullivan, Inc. 5 Scheiber Drive Brick, New Jersey 08723	Phone: 908-930-3512 Fax: 267-220-7750 E-Mail: wtsullivan@comcast.net
	Suresh, Arunya	Non-voting	BASF Corporation 100 Pash Ave Florham Pash, NJ	Phone: 914-262-8715 Fax: E-Mail: arunya.suresh@basf.com
	Thorpe, Ryan	Non-voting	Southwest Research Institute Culebra Road Bldg.209 San Antonio, TX 78238-5166	Phone: (210) 522-6404 Fax: (210) 684-7523 E-Mail: ryan.thorpe@swri.org

*out ARJUN
BASF*

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AT	Trader, Angela	Non-voting Alt	Intertek Automotive Research 5404 Bandera Rd San Antonio TX 78238	Phone: 210-706-1533 Fax: E-Mail: angela.trader@intertek.com
MU	Umerley, Matt	Non-voting Alt	The Lubrizol Corporation 29400 Lakeland Boulevard Wickliffe, Ohio 44092	Phone: 440-347-4589 Fax: 440-347-2878 E-Mail: matthew.umerley@lubrizol.com
	Ved, Shintan	Non-voting	Ford- Trans & Driveline Lubrication 35500 Plymouth Rd. Livonia, MI 48150	Phone: 313-805-9695 Fax: 267-220-7750 E-Mail: cved@ford.com
RCW	Warden, Rebecca	Voting	Southwest Research Institute 6220 Culebra Road Bldg.209 San Antonio, TX 78238-5166	Phone: (210) 522-6266 Fax: (210) 522-6858 E-Mail: Rebecca.Warden@swri.org
	Villahermosa, Luis	Non-voting	AMSTA-TR-D/210 (Luis Villahermosa) U S Army Tank, Automotive, and Armament Command Warren, Michigan 48397-5000	Phone: 586-574-4207 Fax: 586-574-4123 E-Mail: villahel@cc.tacom.army.mil
	Zakarian, Jack	Non-voting	Chevron Products Company 100 Chevron Way Richmond, California 94802-0627	Phone: 510-242-3595 Fax: 510-242-3758 E-Mail: jaza@chevron.com
	Zreik, Khaled	Non-voting	General Motors	Phone: 248-977-9214 Fax: E-Mail: khaled.zreik@gm.com
	CHRIS LONSWAY	N/U	LUBRIZOL 29400 LAKELAND BLVD WICKLIFFE, OH 44092	Phone: 440-347-4517 Fax: E-Mail: CHRIS.LONSWAY@LUBRIZOL.com
ABB	Goyal, Ajim		ABB BASF 500 White Plains Rd Tarrytown, NY 10591	Phone: 914-785-2883 Fax: E-Mail: Ajim.Goyal@BASF.com
				Phone: Fax: E-Mail:
				Phone: Fax: E-Mail:

*Initials indicate that member was present

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*Initials indicate that member was present

L-60-1 Surveillance Panel

August 12, 2015

Agenda

For those not traveling, the call-in number will be 866-528-2256; Code 6859431

- I. Call to Order
- II. Membership and agenda review
- III. Approval of the February 18, and May 13, 2015 SP meeting minutes.
- IV. Severity / Correction Factor - TMC
- V. Continued discussion of Targets and acceptance of RO 155-1 – TMC
- VI. Candidate start vs Calibration period (see 9.2.2) - TMC
- VII. New Business
- VIII. Adjournment

Voting Members

1. Rob Banas
2. Allen Comfort
3. John Dharte
4. Olga Dykhno
5. Larry Hamilton
6. Marc Keisler
7. Bruce McGlone
8. Scott Parke
9. Dale Smith
10. Rebecca Warden

Correspondence for motion from August 12, 2015 Surveillance Panel Meeting.

The following is the correspondence to the L-60-1 Surveillance Panel Members on September 09, 2015

To All

We have been investigating the L-60-1 severity for over a year. At our August 12, 2015 Surveillance Panel Meeting we entertained a motion to help address this issue. In order to correct for an ongoing severity trend a motion was suggested by A. Goyal (BASF), but was tabled to allow everyone more time to evaluate the data and the motion. I have restated the motion below.

- 1. Remove the Transformation from all test parameters*
- 2. Adopt targets presented by TMC during the 8/12/2015 meeting (see attached)*
- 3. Add 0.6 to ACV for all tests After 10/01/2015*

As Chairman I'm looking for someone to make this motion as well as a second, in response to this message. Anyone needing more discussion should also respond to this message indicating such. If there is need for further discourse, I will schedule a meeting for September 15, 2015. If there is no need for further discussion, I will out an E Ballot on September 15, 2015. I will wait until noon of September 14, 2015 for replies.

Motion as stated above was received on 09/09/2015 by R. Warden and Second by M. Keisler on 10/10/2015.

The following E Ballot was sent to all ASTM L-60-1 Members on September 15, 2015

To L-60-1 Surveillance Panel Members

Motion by Rebecca Warden and Second by Marc Keisler to

- 1. Remove the transformation from all test parameters*
- 2. Adopt targets presented by TMC during the 8-12-2015 meeting (see attached)*
- 3. Add 0.6 to ACV for all tests after 10/01/2015*

I have received no comments since September 9th, I will now call for the vote. Voting will remain open until September 28th to ensure everyone has an opportunity to vote.

Voting results are as follows

Current Voting Members

- | | |
|--------------------|-----|
| 1. Rob Banas | For |
| 2. Allen Comfort | For |
| 3. John Dharte | For |
| 4. Arjun Goyal | For |
| 5. Larry Hamilton | For |
| 6. Marc Keisler | For |
| 7. Bruce McGlone | For |
| 8. Scott Parke | For |
| 9. Dale Smith | For |
| 10. Rebecca Warden | For |

Motion passes 10-0-0

Effective Date 20151001

Respectfully Submitted;



Larry Hamilton

L-60-1 Surveillance Panel Chairman