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Committee D02 on PETROLEUM PRODUCTS AND LUBRICANTS

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Feb. 4th, 2013

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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:

Nov. 6th, 2013 Surveillance Panel Meeting (Automation Alley – Troy, MI)

Please direct any corrections or comments to my attention.

Very Respectfully,

Thomas Gottwald, Chairman
L-42 Surveillance Panel

L-42 Surveillance Panel Meeting Minutes

Automation Alley

Troy, MI

Nov 6, 2013

Attendees: voting members in **bold**

B. Koehler (SwRI)	A. Trader (Intertek)	A. Comfort (US Army)	B. McGlone (Meritor)
D. Smith (Intertek)	B. Kearney (Afton)	M. Keisler (Afton)	D. Mosher (Eaton)
S. Parke (TMC)	M. Umerly (LZ)	T. Marougy (Eaton)	T. Barrera (Intertek)
T. Gottwald (Afton/C)	T. Boschert (Afton)	K. Hobson (Afton)	H. Chambers (Linamar)
L. Hamilton (LZ)	D. Bell (Afton)	T. Muransky (Meritor)	
J. Gropp (LZ)	B. Dwornick (US Army)		

Call to Order

The meeting PowerPoint presentation is attached.

Review of Membership

The sign-in sheet is attached.

Review of Agenda

The meeting agenda is attached (slide 2 of attached PowerPoint presentation).

Approval of Meeting Minutes

Meeting minutes from the Aug 14, 2013 L-42 Surveillance Panel meeting, held at PRI in Warrendale, PA.

MOTION by D. Smith to approve the meeting minutes as presented. 2nd by L. Hamilton.
Motion passed unanimously (verbal).

Reference Oil 116-1 Replacement (Oil 1-B → TMC 117)

The TMC advised the SP on the remaining inventory of Oil 116-1:

- 4 Cans remaining at TMC

- 42 Cans in labs

As requested in the Aug 2013 SP meeting, a matrix consisting of six tests was run on TMC 117: Active labs made two runs each on TMC 117 using available hardware (data attached). The average ratings for this matrix were calculated by the TMC as follows:

- Pinion: 17.2% Coast side scoring
- Ring: 10.2% Coast side scoring

The TMC noted that the test target for the pinion is 23% coast side scoring. There is currently no test target for the ring.

Discussion followed: The data indicates that a correction factor will be needed for the pinion and ring ratings, for TMC oil 117. Comparing the delta in rating averages between TMC 116-1 and TMC 117 indicated corrections needed to be in the average range of ~6% Pinion and ~4% Ring. This offset correlates directly between the TMC 117 pinion average scoring and the pinion test target (i.e. the TMC 117 average of 17.2% subtracted from the pinion test target of 23% is 5.8%).

The SP decided that these corrections are reasonable; however more data on TMC 117 is needed for confirmation.

MOTION by J. Gropp; 2nd by T. Gottwald; Each lab, for the next three reference periods OR until supplies of TMC 116-1 or hardware are exhausted, shall perform 1 test using TMC 117 after calibrating. The run count on these reference periods will be 21 runs.* Reference period timing (i.e. 3 months) shall not change.

Motion passed unanimously (verbal).

*Due to hardware availability concerns, the TMC agreed to this change in reference period run count number for the specified term.

Axle Availability

A summary of the last batch order was presented (slide 6 of attached PowerPoint presentation). Three labs are almost out of hardware. As noted in the Aug 2013 L-42 SP meeting minutes, the labs and SP desired to pursue another order of Dana 44 axles. The Chair reported a lack of historic contacts with Dana and requested help from Dana's ASTM representatives to get in touch with the proper sales person, requesting a quote for 1200-1500 units.

All labs are to participate in this batch order.

The Chair will update the hardware TF as soon as order information is available from Dana.

New/Open Issues

None reported.

Adjournment

MOTION by L. Hamilton to adjourn. 2nd by B. Koehler.

Motion passed unanimously (verbal).

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "T. Gottwald".

Thomas Gottwald

L-42 Surveillance Panel Chairman



L-42 Surveillance Panel Meeting

Automation Alley

Troy, MI

Nov 6, 2013

11am-12pm

Passion for Solutions™

Agenda

- ▲ **Call to Order**
- ▲ **Membership Review & Update/Agenda**
- ▲ **Approval of Meeting Minutes**
- ▲ **Reference oil 116-1 replacement**
 - ▲ TMC 117 data review
- ▲ **Axle Availability**
 - ▲ Current Inventory vs. L-42-1 Test Timing
- ▲ **New/Open Issues**
- ▲ **Adjournment**

Approval of Meeting Minutes

SP Meeting Minutes

- ▲ “20130814_SP” → Aug 14, 2013 – Warrendale, PA

Reference Oil 116-1 Replacement

- ▲ **SP looked at reference data, run numbers, labs, and batch numbers in Aug. 2013**
- ▲ **SP asked for matrix to be run on TMC oil 117 (Demo oil 1-B).**
 - ▲ 2 runs/lab
- ▲ **Data to be compared to historic data to determine a plan for correction factors/acceptance bands.**
 - ▲ Set fixed pass/fail criteria option tabled for L-42-1 development.

Oil 117 Information Run Results

Viscosity Grade	PRI QPL #	Meeting #	Coating	Test Type	axle batch	test lab	Run date	Run number	% Scoring Coast Side of Pinion	% Scoring Coast Side of Ring	reference test 1 pinion scoring	reference test 2 pinion scoring	reference test 3 pinion scoring	% Scoring Coast Side of Pinion (Ref. Oil)	reference test 1 ring scoring	reference test 2 ring scoring	reference test 3 ring scoring	% Scoring Coast Side of Ring (Ref. Oil)
80W-90	0514	165/EC/06	Green	Standard	P4L806	Intertek	1/4/2012	TB1-0034	14	8	22	19	25	22	13	8	11	11
80W-90	0511	165/EC/03	Green	Standard	P4L806	Intertek	3/14/2012	TB1-0073	22	13	20	29	27	25	16	21	22	20
80W-90	0480	162/EC/06	Green	Standard	P8L119	EV	7/20/2011	2A-675	15	6	27	24	25	25	15	13	14	14
80W-90	Not Applied For	158/EC/03	Green	Standard	P8L119	EV	7/29/2010	2A-553	22	12	28	25	24	26	16	14	14	15
80W-90	0411	157/EC/08	Green	Standard	P8L119	EV	4/27/2010	2A-508	13	7	23	24	27	25	13	14	18	15
80W-90	Not Applied For	156/EC/17	Green	Standard	P4L806	SR	10/17/2008	03-0391	17	12	25	16	24	22	17	11	16	15
80W-90	Not Applied For	156/EC/09	Green	Standard	P4L806	SR	1/21/2009	03-0432	14	7	16	17	16	16	11	14	10	12
80W-90	0381	155/EC/08	Green	Standard	P8L119	EV	9/30/2009	2A-378	21	12	26	26	24	25	16	16	14	15
80W-90	0383	155/EC/06	Green	Standard	P8L119	EV	9/25/2009	2A-370	18	13	26	26	24	25	16	16	14	15
80W-90	0379	155/EC/04	Green	Standard	P8L119	EV	9/24/2009	2A-368	21	12	26	26	24	25	16	16	14	15
80W-90	0364	154/EC/10	Green	Standard	P8L119	SR	7/13/2009	03-0457	20	14	25	20	22	22	17	16	16	16
80W-90	Not Applied For	152/EC/07	Green	Standard	P1L806	SR	12/15/2008	03-0415	10	6	27	21	19	22	20	14	12	15
80W-90	Not Applied For	152/EC/05	Green	Standard	P1L806	SR	12/2/2008	03-0409	15	12	27	21	19	22	20	14	12	15
80W-90	Not Applied For	151/EC/18	Green	Standard	P1L806	SR	10/20/2008	03-0392	16	12	25	16	24	22	17	11	16	15
80W-90	Not Applied For	151/EC/16	Green	Standard	P1L806	SR	10/15/2008	03-0389	9	5	25	16	24	22	17	11	16	15
80W-90	0405	157/EC/10	Green	Standard	P8L119	EV	4/28/2010	2A-510	17	8	23	24	27	25	13	14	18	15
	96624-L42			117	C1L680	D	20131008	2A 1101	14	6	26	28	28	27	12	15	18	15
	96626-L42			117	C1L680	D	20131010	2A 1107	19	10	26	28	28	27	12	15	18	15
	96630-L42			117	C1L680	B	20131004	286 762	23	16	21	28	20	23	13	15	13	14
	96631-L42			117	C1L680	B	20131004	286 763	16	8	21	28	20	23	13	15	13	14
	96618-L42			117	C1L680	A	20131029	03A 0164	15	10	18	14	14	15	9	8	8	8
	96619-L42			117	C1L680	A	20131029	03A 0165	16	11	18	14	14	15	9	8	8	8
	117 Average								17.2	10.2								

Average Ratings

17.2% Scoring Pinion*

10.2% Scoring Ring*

*Coast Side

Axle Availability

Industry batch order confirmed participating labs receiving all axles, as of Mon. Nov. 5, 2012

- 10% less than originally ordered (due to production losses)

Customer	P.O. Qty	Actual Qty
Afton	329	297
Lubrizol	194	175
Southwest	220	198

Concern in Aug. SP meeting over future availability vs. L-42-1 development.

No quote yet for purchasing another Dana Model 44 batch.

New/Open Issues

 Anything?

Thanks!

L-42 Surveillance Panel Membership/Attendance
Automation Alley - Troy, MI
November 6, 2013

Initials	Name	Voting Non-Voting	Company Name Company Address	Contact information	
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	Thomas Gottwald	V/Chair	Afton Chemical 500 Spring St. Richmond, VA 23219	Phone:	804-788-5230
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**L-42 Surveillance Panel Membership/Attendance
Automation Alley - Troy, MI
November 6, 2013**

Initials	Name	Voting Non-Voting	Company Name Company Address	Contact information	
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	Brad Bubonic	NV	The Lubrizol Corporation	Phone:	440-347-5325
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TB	Tom Boschert	NV	Afton Chemical	Phone:	804-788-5202
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November 6, 2013

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AT	Angela Trader	NV	Intertek Automotive Research	Phone:	210-706-1533
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L-42 Surveillance Panel Membership/Attendance
Automation Alley - Troy, MI
November 6, 2013

Initials	Name	Voting Non-Voting	Company Name Company Address	Contact information	
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**L-42 Surveillance Panel Membership/Attendance
Automation Alley - Troy, MI
November 6, 2013**

Initials	Name	Voting Non-Voting	Company Name Company Address	Contact information	
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