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Committee D02 on PETROLEUM PRODUCTS AND LUBRICANTS

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Aug. 16th, 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:

Aug. 14th, 2013 Surveillance Panel Meeting (PRI – Warrendale, PA)

Please direct any corrections or comments to my attention.

Very Respectfully,

Thomas Gottwald, Chairman
L-42 Surveillance Panel

L-42 Surveillance Panel Meeting Minutes

PRI

Warrendale, PA

Aug 14, 2013

Attendees: voting members in **bold**

B. Koehler (SwRI)	J. Gropp (LZ)	T. Boschert (Afton)	M. Keisler (Afton)
D. Smith (Intertek)	A. Trader (Intertek)	D. Bell (Afton)	T. Marougy (Eaton)
S. Parke (TMC)	B. Kearney (Afton)	L. Hamilton (LZ)	N. Aguirre (Intertek)
T. Gottwald (Afton/C)	R. Banas (XOM)	B. Dwornick (US Army)	
A. Athey (Volvo)	M. Umerly (LZ)	A. Comfort (US Army)	
L. Hamilton (LZ)	C. Pregarman (LZ)		
	P. Kanga (XOM)		

Call to Order

The meeting PowerPoint presentation is attached.

Review of Membership

The sign-in sheet is attached. W. Venhoff was removed from list and it was confirmed that L. Hamilton would continue to be the voting representative from LZ.

Attendance sheet is up-to-date.

Review of Agenda

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

Approval of Meeting Minutes

Meeting minutes from the May 15, 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 T. Gottwald.
Motion passed unanimously (verbal).

Reference Oil 116-1 Replacement (Oil 1-B)

The TMC advised the SP on the remaining inventory of Oil 116-1 (attached).

The TMC is purchasing 10 drums (550 gal) of Oil 1-B as a possible replacement for Oil 116-1. The supplier has set up shipment and the TMC should receive it within 2 weeks.

As requested in the May 2013 SP meeting, an updated spreadsheet was presented on Oil 1-B (attached). The new data added included reference information, lab codes, and batch numbers. It was determined that it is too early to decide whether correction factors or acceptance bands can be established yet.

The following needs were determined:

- The SP needs more data on Oil 1-B using current hardware, therefore a matrix should be determined to generate this data.
- Data from this matrix will be compared to presented (historical) data and the SP will determine a plan for correction factor/acceptance bands then.

MOTION by L. Hamilton; 2nd by B. Koehler; Each lab will run 2 tests on Oil 1-B, once available from the TMC. Labs will run on whichever current hardware batch is available to each lab and tests will be conducted on referenced stands. Data from this matrix will be used for comparison to the historic data. Matrix is to be completed by 10/31/13.

Motion passed: 7 for, 0 against, 0 abstentions

New/Open Issues

Two new issues were brought to the SP's attention:

1. Another batch order may need to be placed with Dana to hold the labs over until an L-42-1 can be established. Discussion indicated that there are issues that need to be clarified in the L-37-1 development that will aid in L-42-1 development. Unfortunately this may mean that L-42-1 work will need to wait a bit. Without knowing this timeframe, the Chair has been asked to get a quote for another batch from Dana. This information will be shared with the L-42 Hardware TF and ultimately with the SP. The following timeline was established:
 - o Chair will obtain quote for next batch, from Dana, by end of September: Chair will solicit labs for possible quantities of axles for order. Most likely 1200-1500 units.
 - o An organizational TF call will be scheduled for early to mid-October to set plan of action.
 - o SP will be updated with plan in Nov. ASTM/LRI meetings.
2. The question came up as to whether or not the SP should set fixed pass/fail criteria for the L-42. Could acceptance bands be adopted to separate candidate runs from calibration runs, as they are in L-37 and L-60? Discussions reviewed options, such as looking back over historical reference data (through the TMC). This topic will be tabled and rolled in to L-42-1 development, as better torque control and a decrease in hardware variability are needed in order to establish

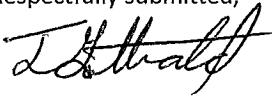
reasonable acceptance bands. It is the SP's hope to address all of these problems/issues with the L-42-1.

Adjournment

MOTION by D. Smith to adjourn. 2nd by T. Gottwald.

Motion passed unanimously (verbal).

Respectfully submitted,

A handwritten signature in cursive script, appearing to read 'T. Gottwald', written in black ink.

Thomas Gottwald

L-42 Surveillance Panel Chairman

**L-42 Surveillance Panel Meeting Agenda
Aug 14, 2013
11-12 am
Warrendale, PA**

1. Call to Order
2. Membership/Agenda Review & Update
3. Approval of meeting minutes: "20130515_SP"
4. Reference oil 116-1 replacement (TMC)
5. New/Open Issues
6. Adjournment

Call in information: 866-772-2823 Passcode: 5480208



L-42 Surveillance Panel Meeting

PRI







Warrendale, PA

Aug 14, 2013

1030am-1130pm

Passion for Solutions™

Agenda

-  **Call to Order**
-  **Membership Review & Update/Agenda**
-  **Approval of Meeting Minutes**
-  **Reference oil 116-1 replacement (TMC)**
-  **New/Open Issues**
-  **Adjournment**

Approval of Meeting Minutes

SP Meeting Minutes

- ▲ “20130515_SP” → May 15, 2013 – Warrendale, PA

Reference Oil 116-1 Replacement

- ▲ Data for Submitted Oil was reviewed in SP meetings in Nov 2012, Feb 2013, and May 2013
- ▲ SP asked for reference data, run numbers, labs, and batch numbers (See Spreadsheet)
- ▲ Correction Factors vs. Acceptance Bands

New/Open Issues

 Anything?

Thanks!

LRI 169

Oil	Cans @ Labs	@ TMC	
		Cans	Gallons
112-2	5	15	7.5
113	16	143	71.5
116	0	0	0.0
116-1	42	32	16.0
Total	63	190	95.0

LRI 170

Oil	Cans @ Labs	@ TMC	
		Cans	Gallons
112-2	5	15	7.5
113	13	143	71.5
116	0	0	0.0
116-1	41	14	7.0
Total	59	172	86.0

L42 Data for Demo Oil 1-B's performance additive

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