



A PROVEN PARTNERSHIP

100 Barr Harbor Drive ■ West Conshohocken, PA 19428-2959

Telephone: 610-832-9500 ■ Fax: 610-832-9555 ■ e-mail: service@astm.org ■ Website: www.astm.org**Committee D02 on PETROLEUM PRODUCTS AND LUBRICANTS**

Chairman: N DAVID SMITH, North Carolina Dept Of Agric, 2 West Edenton St, PO Box 27647, Raleigh, NC 27611, (919) 733-3313, FAX:919-715-0524, Email: david_smith@ncdamail.agr.state.nc.us

First Vice Chairman: SUSAN E. LITKA, UOP Research Center, 50 East Algonquin Road, PO Box 5016, Des Plaines, IL 60017-5016, (847) 391-3390, FAX: 847-391-3330

Second Vice Chairman: KURT H. STRAUSS, 69 Brookside Rd, Portland, ME 04103, (207) 773-4380, FAX: 207-775-6214

Secretary: KENNETH O. HENDERSON, Cannon Instrument Co, PO Box 16, State College, PA 16804-0016, (814) 353-8000, FAX: 814-353-8007, Email: kenohenderson@worldnet.att.net

Assistant Secretary: W JAMES BOVER, EXXON Biomedical Sciences, Mettlers Rd Cn2350, East Millstone, NJ 08875-2350, (732) 873-6318, FAX: 732-873-6009, Email: mailto:james.bover@ere.exxon.sprint.com

Staff Manager: EARL R. SULLIVAN, (610) 832-9709, Email: esulliva@astm.org

February 5, 2006

TO: Mack HTCT (D5579) S. P. Membership and Mailing List

SUBJECT: Mack HTCT SP Meeting Minutes, April 6, 2005, Warrendale, PA

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Call to order:

Brian Koehler, the chairman of the Mack High Temperature Cyclic Test ASTM Surveillance Panel called the meeting to order at 10:47 a.m. on April 6, 2005 at the PRI headquarters in Warrendale, PA.

Chairman's Comments:

The chairman handed out copies of a proposed agenda. See attachment 1.

Review/ Revise Membership:

The chairman passed around a Membership/Visitor sign up list, see attachment 2.

Approval of minutes from the last meeting:

There have been no comments concerning the meeting minutes posted to the TMC web site for November 3rd, 2004. The minutes are considered approved as posted.

LRI Significant Digit Reporting Request:

For this test type we report cycles to the whole number. Pass / Fail criteria is related to the average of the last 5 reference runs on the category reference oil. All averages are also reported to the whole number (using ASTM E-29 rounding). This test type does not have a severity adjustment system at this time.

After discussion it was decided that the chairman is to report to the LRI board that for the Mack HTCT test type, no changes to the result reporting format is needed. Results will continue to be reported as whole cycles. This task was completed at the following day's LRI open meeting.

TGC Proposal for Test Precision Reporting Guidelines:

The chairman had previously asked Mr. Frank Farber of the TMC to make a presentation concerning the suggested wording needed for our standard. Mr. Farber made his presentation. The following motion was then made by Frank Farber and seconded by Dale Smith: "Eliminate the existing table in the standard, revise any section as needed, replace existing documentation with a more standard statement of precision to be used in other gear lub documents. Include the configuration two data only. Implementation date is to be effective at the date of the information letter." This motion passed 5 for, 0 against, no abstains. See information letter 05-2 for details.

Shift Piston Part Number:

There are two different part numbers for the shift cylinder's donut shaped shift piston. These reflect a newer and older style part. The part numbers are not marked on the hardware. These parts were originally thought to be identical but it was later discovered that one (the newer) was made slightly smaller to solve some field related spalling problems. After much discussion the decision was made that only the older style pistons would be acceptable for test use. The following motion was made by Mr. Don Lind and seconded by Mr. Jerry Gropp: "That we issue an information letter to change the procedure, add a footnote or what ever other action that is allowed by the blue book to specify the Mack blue print dimensions for the outside diameter (3.740 to 3.738 inches) of the old style piston such that it must be used. Effective date is the release date of the information letter." This motion passed unanimously. See information letter 05-2 for details.

Old Business:

There was no old business to be discussed.

New Business:

There was some discussion on how we would handle new labs wanting to run this test type given the fact that we are calling out the use of older hardware that is not now available. (The existing labs have a 10 or more year supply). No action was taken on this subject. No new labs are currently requesting help with setting up this test type.

Mr. Sullivan voiced his concern that the Mack HTCT may no longer have value as a gear lubricant test. He feels like this may be a section issue. No action was taken at our meeting.

Action Items / Motions:

See attachment 3 for an action item and motions list.

Next Meeting:

The next meeting will be at the call of the chairman.

Adjournment:

Mr. Dale Smith moved and Mr. Cory Koglin seconded a motion for adjournment. It passed and the meeting ended at 11:21 a.m.

Submitted by:



Brian Koehler
Mack HTCT Surveillance Panel Chairman
Southwest Research Institute
6220 Culebra Road
San Antonio, TX 78238-5166

clm
Attachments

**Mack HTCT Surveillance Panel Meeting
PRI, Warrendale, PA
April 6, 2005**

AGENDA

Call to Order

Chairman's Comments, Brian Koehler, SwRI

Review/ Revise Membership

Approval of Minutes from Last Meeting, Nov. 3, 2004, PRI

Motion/ Action Item Recorder

Result Reporting, Significant Places, Rounding, LRI Request

TGC Proposal, Test Precision Reporting Guidelines

Shift Piston Part Number, Size

Old Business

New Business

Summary of Action Items

Summary of Motions Passed

Next Meeting

Adjournment

Attachment 2

CYCLIC DURABILITY SURVEILLANCE PANEL

Meeting Date: 4-6-05

| Initials | Name | Voting Status | Company Name & Address | Telephone | Fax | Email |
|------------|----------------------|---------------|--|--------------|--------------|--|
| <i>DTB</i> | Bartlett, Don | Non-Voting | The Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092 | 440-347-2388 | 440-347-2878 | dtb@lubrizol.com |
| <i>DB</i> | Bell, Don | Non-Voting | Affon Chemical Corporation 500 Spring Street Richmond, VA 23218 | 804-788-6332 | 804-788-6243 | donbell@affonchemical.com |
| | Bryson, Tom | Voting | Mack Trucks, Inc. 13302 Pennsylvania Avenue Hagerstown, MD 21740 | 301-790-5454 | 301-790-6744 | |
| | Buitrago, Juan | Voting | Chevron Oronite Company 100 Chevron Way Richmond, CA 94802 | 510-242-1161 | 510-242-3392 | jabu@chevrontexaco.com |
| | Comfort, Allen | Non-Voting | USArmy TACOM 6501 E. Ii Mile Warren, MI 48307 | 586-574-4225 | 586-574-4244 | allen.s.comifort@us.army.mil |
| | De La Fuente, Hector | Non-Voting | Southwest Research Institute 6220 Culebra Road San Antonio, TX 78238-5166 | 210-522-5996 | 210-680-1777 | hdelafuente@swri.org |
| | Dharte, John | Non-Voting | AAM 2965 Technology Dr. Rochester Hills, MI 48309 | 248-299-6478 | 248-293-6945 | DharteJ@aam.com |
| | Duckstein, Ron | Voting | PARC Technici Services, Inc. 100 William Pitt Way Pittsburgh, PA 15238 | 412-826-5115 | 412-526-5443 | rhd@usaor.net |
| <i>RF</i> | Farber, Frank | Non-Voting | ASTM Test Monitoring Center 6555 Penn Avenue Pittsburgh, PA 15206 | 412-365-1030 | 412-365-1047 | fmf@astmtmc.cmu.edu |
| | Goyal, Arjun | Non-Voting | ExxonMobil Research & Engineering 600 Billingsport Road Paulsboro, NJ 08066 | | | |
| <i>JG</i> | Gropp, Jerry | Voting | The Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092 | 440-347-1223 | 440-347-1555 | jlg@lubrizol.com |
| | Huron, John | Non-Voting | Chevron Oronite Company 4502 Centerview Drive, Suite 210 San Antonio, TX 78228 | 210-731-5609 | 210-731-5699 | huro@chevrontexaco.com |
| | Jacobson, Tom | Voting | Infineum USA P.O. Box 536 Linden, NJ 07036 | 908-474-3031 | 908-747-3597 | |
| | Koehler, Brian | Voting | Southwest Research Institute 6220 Culebra Road San Antonio, TX 78238-5166 | 210-522-3588 | 210-680-1777 | bkoehler@swri.org |

CYCLIC DURABILITY SURVEILLANCE PANEL

Meeting Date: _____

| Initials | Name | Voting Status | Company Name & Address | Telephone | Fax | Email |
|-------------|-----------------------|---------------|---|--------------|--------------|--|
| <i>C.K.</i> | Koglin, Cory | Voting | Afton Chemical Corporation 500 Spring Street Richmond, VA 23218 | 804-788-5303 | 804-788-6358 | Cory_koglin@aftonchemical.com |
| | Layton, Kevin | Non-Voting | Afton Chemical Corporation 500 Spring Street Richmond, VA 23218 | 804-788-5363 | 804-788-6358 | |
| <i>DL</i> | Lind, Don | Voting | ASTM Test Monitoring Center 6555 Penn Avenue Pittsburgh, PA 15206 | 412-365-1034 | 412-365-1047 | dml@astmtmc.cmu.edu |
| | Marougy, Thelma | Voting | Eaton Corporation 26201 Northwestern Highway Southfield, MI 48037 | 248-354-6985 | 248-354-2739 | thelmaemarougy@eaton.com |
| | McGlone, Bruce | Voting | ArvinMeritor 2135 West Maple Troy, MI 48064 | 248-435-9929 | 248-435-1411 | mglonbf@meritorauto.com |
| | Messmann, Grant | Voting | Spicer Off-Highway Dana Corporation P.O. Box 2424 Fort Wayne, IN 46801 | | | |
| | Oumar-Mahamat, H. | Non-Voting | ExxonMobil Chemical P.O. Box 3140 Edison, NJ 08818 | 732-321-6193 | 732-767-3232 | Halou.Oumar-Mahamat@exxonmobil.com |
| <i>CS</i> | Schenkenberger, Chris | Non-Voting | The Lubrizol Corporation 29400 Lakeland Blvd. Wickliffe, OH 44092 | 440-347-2927 | 440-347-2878 | csc@lubrizol.com |
| <i>AS</i> | Smith, Dale | Voting | PARC Technical Services, Inc. 100 William Pitt Way Pittsburgh, PA 15238 | 412-826-5051 | 412-826-5443 | dsmith@parctech.com |
| <i>WS</i> | Sullivan, Bill | Voting | ExxonMobil Chemical Company P.O. Box 3140 Edison, NJ 08818 | 732-321-3354 | 732-321-6064 | william_t_sullivan@email.mobil.com |
| | Vettel, Paula | Voting | D.A. Stuart Company 4580 Weaver Parkway Warrenville, IL 60555 | 630-393-8859 | 630-393-8577 | pvettel@dastuart.net |
| | Whitton, Claire | Non-Voting | Afton Chemical Corporation 500 Spring Street P.O. Box 2158 Richmond, VA 23218-2159 | 804-788-5052 | 804-788-6243 | claire.whitton@aftonchemical.com |

Harold Chambers Non-Voting
Visteon Corporation
17000 Rotunda Dr.
Dearborn, MI 48120-1100
Cube - C260-81
313-755-4246 313-755-5681
hchambers@visteon.com

Don Bartlett notes for Brian Koehler

- ✓ D5579 Brian Koehler - Called to order at 10:47
 - The minutes have not been put on the TMC web site at the moment.

LRI Significant digit reporting request:

We report cycles to the whole number now. Pass fail criteria relate to the average of the last 5 good references in the lab. All reported to a whole number. No places to right of decimal. No current active severity adjustment system.

Action Item: BK to inform the LRI that the panel did meet, discuss, and decided that there were no changes to be proposed/made.

The language for E-29 rounding is moot here, needs to be in the SAE J2360.

TGC Proposal, Test Precision Reporting Guidelines:

- Currently nothing in any TMC document/LTMS
- Brian, Ask TMC Farber for the HTCT recommendation they are proposing

Motion: Frank Farber, second Dale Smith to eliminate from the table in the standard, revise any section of the standard, replace this documentation with a more standard statement of precision as such the Std Dev 1453. Include the configuration two data only Implementation date effective the date of the information letter.

Vote, 5, 0, 0.

Shift Piston Part number - there were differences in shift assembly, decision made to not incorporate the new hardware into the test, shift force concerns. As labs ran, the doughnut shape part of assembly, appeared to be identical, old vs. new style. There was not PN stamping. It was suggested that we approve the new one as an acceptable part because it appeared as a no change. The old part is no longer acceptable. Was there a hidden metallurgical difference? The action item was to talk with Mac, review the blue prints, determine the reason for the change, and then ballot the motion of approval. As we got into those discussions with Mac, there were differences in the parts, somewhat smaller in diameter (Out side), and the specs were such that they did not overlap. Labs went back, measured, segregated into old and new piston pile. Reason for the change was because there was a field interference problem, cylinder scoring, etc, so the change was made. SwRI and Parc agreed that we have enough of the old pistons for the life of test, will only use the old pistons, with the exception of, for auditing purposes, and note in the

procedure listing the actually range size for the diameter old pistons. (the PN is not listed for TMC to confirm). Therefore, it was never balloted.

Motion by Mr. Lind, second by Mr. Gropp: that we issue an information letter to change the procedure, adding a footnote or what ever into the procedure specking the Mack blueprint dimensions for the outside diameter of the piston doughnut. See attachment xx letter Chairman Koehler sent on March 9, 2005. Effective date is the release of the information letter.

Ensuing discussion and concerns/obligation of bringing a new lab into the system since the hardware is no longer able to purchase. SwRI has enough hardware for approximately 14 years. There are used parts in junkyard. This may be a whole separate action item for the panel?

Mr. Sullivan feels that the action may need to go to the section because some feel that this test has no value for the money spent for passing the specification requirements.

The voice vote, was unanimous with no abstentions or no votes.

Adjourn, Smith/Koglin at 11:21