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January 20, 2009

Reply to:

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ASTM D02.B0.03 L-60-1 Surveillance Panel  
Members and Guests:

Attached for your review and comment are the unconfirmed minutes of the November 12, 2008 L-60-1 Surveillance Panel meetings held at the PRI Headquarters in Warrendale, PA. Please direct any corrections or comments to my attention.

Sincerely,

Rick Graziano

Chairman

L-60-1 Surveillance Panel

Attachments

Report of Meeting  
L-60-1 Surveillance Panel  
Warrendale, PA  
PRI Apollo Room

November 12, 2008

**Sign-in/Review of Agenda & Membership:** The meeting was called to order at 1:55 p.m. The sign-in sheet is included as *Attachment # 1*. A review of membership was performed.

**Review of Meeting Agenda**

The meeting agenda is included as *attachment # 2*.

**Approval of Minutes:** The chairman reported that he had previously received comments for corrections and posted them to the May and July 31 meeting minutes.

- February 13, 2008 L-60-1 Surveillance Panel Meeting
- August 13, 2008 L-60-1 Surveillance Panel Meeting

**Motion # 1** ⇒ Motion by Mr. Bell/Second Mr. Koehler, minutes unanimously approved as written.

**Summary of Meeting Discussions**

**Attachment #3 represents the PowerPoint discussion points.**

**Rating experiment planned for winter workshop**

See *attachment # 3 (slides 2-4)* for details. The rating itself is the larger reason for the variability. The reference and workshop ratings show that there is a correlation to the laboratory rating deltas. Mr. Lind has received comments from other raters that rating in different room lighting also provides a difference. So a light source and how you hold the gear are areas for hoped improvements.

**D5704, Figure A2.1 in Section 6.1.15 assembly drawing**

See *attachment # 3 (slide 5)* for details. Drawing / figure update to address the V-ring location. The choices are 1) is there are drawing package within Cad that you can scan this drawing into and modify. 2) Recreate the whole drawing from scratch.

**Ballot update - ASTM's initiative is to standardize SI units and proposed changes to L-60-1 (D5704)**

See *attachment # 3 (slides 6-9)* for details. Mr. Bowman indicated that the changes are editorial in nature and can be incorporated into the ballot.

**L-60-1 Surveillance Panel Chairmanship**

Chairman Schenkenberger announced that he has assumed other responsibilities and thanked everyone for their support and guidance throughout his tenure as Chairman. Nominations were opened for a new Chairman. Rick Graziano was announced and welcomed as the new L-60-1 Panel Chairman.

**Motion # 2** ⇒ Motion for meeting adjournment, Mr. Bartlett/ second Mr. Koglin motioned to adjourn at 2:30pm all in favor.

Respectfully submitted,



Rick Graziano  
L-60-1 Surveillance Panel Chairman

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

Meeting Date: November 12, 2008

Initials*	Name	Voting Status	Company Name & Address	Phone & Fax & E-Mail
	Anderson, Greg	Non-voting	Falex Corporation 1020 Airpark Drive Sugar Grove, Illinois 60554-9585	Phone: 630-556-3669 Fax: 630-556-3679 E-Mail:
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DB	Bartlett, Don	Non-voting	The Lubrizol Corporation 29400 Lakeland Boulevard McKittie, Ohio 44092	Phone: 440-347-2388 Fax: 440-347-2878 E-Mail: db@lubrizol.com
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	Bryson, Tom	Voting	Mack Trucks 13302 Pennsylvania Avenue Hagerstown, Maryland 21740	Phone: 301-790-5454 Fax: 301-790-6744 E-Mail: tom.bryson@macktrucks.com
	Buitrago, Juan	Voting	Chevron Oriente Co. 100 Chevron Way Richmond, California 94802-0627	Phone: 510-242-1161 Fax: 510-242-3392 E-Mail: jabu@chevronlexaco.com
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Attachments 1  
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 References 7-60-1  
 11-12-08

\* Initial to indicate attendance at subject meeting

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

Meeting Date: November 12, 2008

Initials*	Name	Voting Status	Company Name & Address	Phone & Fax & E-Mail
	Comfort, Allen	Non-voting	AMSTA-1TR-D/210 (Allen Comfort) U S Army Tank, Automotive, and Armament Warren, Michigan 48397-5000	Phone: 586-574-4225 Fax: 586-574-4244 E-Mail: comforta@cc.lacom.army.mil
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<i>JS</i>	Gropp, Jerry	Non-voting	The Lubrizol Corporation 29400 Lakeland Boulevard McKittie, Ohio 44092	Phone: 440-347-1223 Fax: 440-347-1555 E-Mail: jrg@lubrizol.com


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\* Initial to indicate attendance at subject meeting

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

Meeting Date: November 12, 2008

Initials*	Name	Voting Status	Company Name & Address	Phone & Fax & E-Mail
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Initials*	Name	Voting Status	Company Name & Address	Phone & Fax & E-Mail
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# L-60-1 Surveillance Panel

November 12, 2008  
2:00 p.m. – 3:00 p.m.  
PRI Apollo Room – Warrendale, PA

## Agenda

- I. Call to order
- II. Review Agenda
- III. Approval of meeting minutes
  - February 13, 2008 L-60-1 Surveillance Panel Meeting
  - August 13, 2008 L-60-1 Surveillance Panel Meeting
- IV. Rating experiment planned for winter rating workshop
- V. Updating figure A2.1 of the D5704
- VI. Ballot update - ASTM's initiative to standardize SI units and proposed changes to L-60-1 (D5704)
- VII. L-60-1 Surveillance Panel Chairmanship
- VIII. New Business
- IX. Adjournment

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## L-60-1 Surveillance Panel Meeting

November 12, 2008

2:00 p.m. – 3:00 p.m.

PRI Apollo Room – Warrendale, PA



### Rating Experiment Planned for Winter Rating Workshop

- Purpose of experiment is to test a refinement to the L-60-1 ACV rating procedure
- The process was initially developed at the summer workshop
- Surveillance Panel approved a motion on 8/13/08 to conduct a round robin type evaluation by cycling reference gears from lab to lab
- All raters are encouraged to participate but only the values generated by the high volume raters will be used to gauge the effectiveness

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Attachment

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## Rating Experiment Planned for Winter Rating Workshop

- Lubrizol drafted the rating procedure and a 9/25/08 SP teleconference was held to discuss details
- The major improvement involves orienting the gear at a fixed position relative to the light making any adjustments from a horizontal position while rating (see next slide)
- Teleconference Attendees:
  - TMC - Don Lind
  - PARC - Ralph Kozlowski
  - SwRI - Art Sanchez, Jesse Rodriguez, Frank Lopez
  - Afton - Pat Adams, Cory Koglin, Wes Stocks
  - Lubrizol - Don Bartlett, Pete Radonich, Rick Graziano, Galen Greene, Chris Schenkenberger
- For the purpose of making sure the experiment is run properly, it was decided to conduct the work at the winter rating workshop

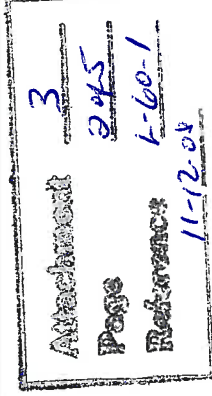
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## Rating Experiment Planned for Winter Rating Workshop

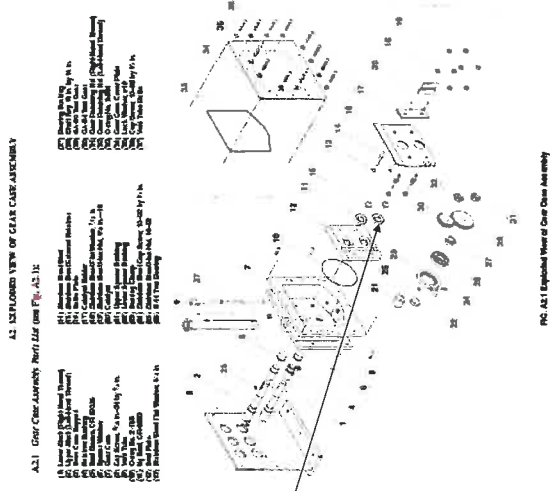
### L-60 Rating Procedure

1. Handle the gears at the gear teeth lands to avoid any contact of the rated area.
2. Use a cool white type fluorescent 4500 K color temperature light with a minimum illumination level of 200 foot-candles for rating gears.
3. Place one white 8 1/2" X 11" U.S. letter size paper on the base of the rating surface.
4. Wipe a 3/4 inch wide area across the diameter of the face of the gear along the keyway. Wipe the gear five times in the same direction.
5. Place the gear on the clear plastic holder with the keyway vertical, front side up. Do not tilt or adjust the gear from the flat orientation while rating.
6. Position the light 8 ± 0.5 inches level above the gear with the near edge of the light projecting downward directly over the center-bore of the gear.
7. Rate the bottom half of the gear looking directly down on the gear, from above the near edge of the light. Do not rate the gear teeth or the spacer bushing contact area.
8. Rotate the gear 180 degrees and rate the other half of the gear.
9. Turn the gear over and repeat the rating procedure for the back side.
10. Use any of the three Rating Scales (A, B or C) for Non-Rubbing Parts in CRC Manual No. 20 to determine the varnish rating.
11. Do not use new test parts, such as a gear or the washer nut area of the test gear as a 10.0 rating reference point.
12. Repeat both large and small gear with the same procedure.

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## D5704, Figure A2.1 – Exploded View of Gear Case



- V-ring location...

## Standardization of Units (SI) in ASTM D5704

- Purpose: Update the standard's units per the ASTM Units Project directive
- Item # 4 within Letter Ballot: D02.B0 (08-07)
  - Issue Date: OCT 22, 2008
  - Closing Date: NOV 21, 2008
- CONTACT: Lyle O Bowman - D02.B0.10 Facilitator
  - jfoodie@comcast.net
  - (415) 479-3004

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## Standardization of Units (SI) in ASTM D5704

- Feedback received...
- Sections:
  - 6.1.8.1 - Add SI units for 1/2 and 1/4 in. and 150-lb
  - Note 1 - Add SI unit for ft
  - 8.4.1 - Add SI units for 1/2 in.
  - Annex A2.1 - Add all respective SI units
- All proposed changes appear to be non technical and editorial
- Based on feedback from Lyle Bowman, these were oversights and could be incorporated into the ballot

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