

ASTM D-7038 (L-33-1) MOISTURE CORROSION TEST
SURVEILANCE PANEL MEETING

For LRI #139
February 7, 2006
PRI Headquarters
Warrendale , PA

Unconfirmed Minutes

- I. Call to Order
- II. Approval of conference Call Minutes December 16, 2005 and January 17, 2006. Tabled until next meeting.
- III. Business

Axle Cover Rating Template Alignment

The Raters and Mr. Lind have found axle cover rating template to have a location variable based on flipping the template over giving different axle cover ratings. Then lab committee has reviewed the problem and proposed and completed these steps:

- 1. Labs sent all but one of their templates to PARC for comparison.
- 2. TMC, chair, and rater perform comparison.
- 3. If all plates are comparable: serialize, mark front of the comparable side, and mark pin locations.
- 4. Provide a list of the compared templates for the TMC to maintain.
- 5. Provide a traceable path to the templates.
- 6. PARC to provide a new marked version to the LRI for standard.

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A4. L-33-1 Rating Procedure

A4.1 Additional information has been added to aid the rater in accurately assessing the rust and corrosion following the completion of the test. Use the steps in this annex not those found in CRC Rating Manual 21 where applicable.

A4.2 Coat parts with Mobil Arma 245 prior to rating.

A4.3 Examine the part before wiping. Note any suspicious observations. Mobil Arma tends to enhance the appearance of rust. It is advantageous to find questionable areas prior to wiping the cover.

A4.4 Wipe the part with a soft lint free material to remove any excess Mobil Arma, sludge or stain residue. *Only wipe the part once.*

A4.5 Rate each area without magnification. *Do not* use magnification for determining additional rust or subdivision of a predetermined spot of rust.

A4.6 If a spot of rust is encountered that is beyond reasonable confirmation without magnification, use 10X magnification only on that spot to determine if it is rust. If after using 10X magnification on the suspicious spot and it is still inconclusive, the evaluation should be that the condition is not rust.

A4.7 Note in rater comments if magnification was used and what area.

A4.8 Rate the V99.1 and all subsequent hardware with the cover plate template shown in Fig. A1.14.

A4.9 Each template must be used with the writing facing the rater during use.

A4.10 All Cover Rating Templates shall be compared, serialized, made traceable, a record kept by and approved for use by the TMC.

A4.11 The Axle Cover Rating Template shall use 4 S.S tapered alignment pins McMaster Carr part # 90681A383 .305in. X .409in. 5in. long at locations marked as pin on the controlled templates and in Fig. A1.14

Motion: Brian K. SWRI TMC 2nd. Don B. LZ will be asked to issue an info letter adding A4.9 to A4.11 to the standard effective today. Vote 5/0/0

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Motion: Jerry G. all stands are to be referenced using the new template within the next 30 days. Tabled

Labs D used the cover plate as required by the new position.

Labs B&E changed their cover plates to the new position.

Motion: Don B. Data Dictionary is to have a field to identify the template serial number that is used. 2nd Bill S. Vote 5/0/0

Trunion templates were checked by the raters all Acceptable.

Test has seen some severity issues in the reference tests.

Don Lind presentation L-33-1 Severity issues.

Possible template causing problem?

Is the 123 oil a problem?

Are the labs a problem?

151-3 is a little more severe in areas 2, 3

The committee will continue to watch the problem closely with the template find and the 123-2 oil now in use either could be contributing. No action at this time.

New reference oil TMC-151 has new base stock TMC-155.

What is necessary to compare this to the oil and provide an acceptable confidence in the new oil?

Motion: Jerry G. 2nd Bill S. Each lab to run one reference on the new oil 155 and with the new template in the by March 7, 2006 and review before the data we run the new oil and the committee will hold a conference call within week of receiving all 4 tests to review the results. 4 for 0 against 1 abstain

IV. New Business? None

IV. Adjourn Cory K. Bill S. 5/0/0

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ASTM L-33-1 Rating Template Reference Log

LAB	Serial Number
LRI	LRI #1
Afton	EV #1
Afton	EV #2
Lubrizol	LZ #1
Lubrizol	LZ #2
Lubrizol	LZ #3
PARC	PK #1
PARC	PK #2
PARC	PK #3
PARC	PK #4
SWRI	SR #1
SWRI	SR #2
SWRI	SR #3
SWRI	SR #4

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ASTM EQUIPMENT RECORD CARD

PARC ATS Calibration Record Date Inspected 1/25/2006 Frequency Replace N/A When Damaged Due Date

Equipment Description: ASTM L-33-1 Rating Template for Differential Cover Rating

Manufacturer: Afton Chemical Co.

Identification: ASTM L33-1 Temp

Type: Steel Cut Template for Rating

Serial Number: LRI #1

Location: LRI

Accuracy: +/- % or Degrees N/A

The instrument listed on this record card has been compared to representative industry templates to assure that all certified labs have the same template position and te

This calibration is derived from all templates provided and compared to industry recognized templates for consensus standards.

PARC Technical Services, Inc. and the Test Monitoring Center has performed in this calibrations for the ASTM L-33-1 rating equipment.

All results contained within this equipment record card relate only to item(s) calibrated.

This equipment record cord is the property of PARC Technical Services, Inc. and/or The Test Monitoring Center and shall not be reproduced except in full and with this

**Calibration Unit Comparison
L-33-1 Axle Cover Rating Template**

- 1.) Place Serial Number on the Axle Cover Template.
- 2.) Provide Correct Location Orientation and Pin Location on the Axle Cover Template.
- 3.) Comparison the Axle Cover Template with representative parts.
- 4.) Provide Documentation to Template as Acceptable for Use

Dale B. Smith A

Donald Lind T

Ralph Kozlowski

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