

Unconfirmed Meeting Meetings  
ASTM Section D02.B0.03  
August 12, 2009

Call to Order

ASTM Section D02.B0.03 met on August 12, 2009 at the U.S. Army TACOM facility in Warren, Michigan. Mr. Gropp, Chairman, called the meeting to order at 9:00 am. He reviewed the Agenda, a copy of which is included as Attachment 1. Notes from the discussion of these Agenda items follow.

Membership

The membership and mailing list is included as Attachment 2. Subsequent to the meeting, it was determined that not everyone present at the meeting had an opportunity to sign in. As such, this list does not accurately represent the attendance at this meeting.

Test Lab Efficiency

Mr. Koehler from Southwest Research Institute presented his views on the importance of optimizing the process for introducing new test stands and calibrating existing test stands. He indicated that testing facilities must be able to be flexible in order to respond to changing customer needs. He identified several areas where improvements to the current stand calibration process might be implemented. He suggested that each Surveillance Panel look for ways to eliminate unnecessary test costs while insuring that the quality of the data being produced is not compromised. A copy of Mr. Koehler's presentation is included as Attachment 3.

Chairman Gropp indicated that he will ask each Surveillance Panel to carefully consider Mr. Koehler's comments, and look for ways to eliminate unnecessary test costs. Mr. Lind advised that the Administrator of the Test Monitoring Center is currently reviewing the test stand monitoring and calibration process in order to determine if this process can be improved, and will advise the Section and Surveillance Panels of his findings.

## Rating Workshop Data

Mr. Lind reviewed the results from the July 21, 2009 Rating Workshop. His overall impression was that the data generated in the L-33-1, L-37, and L-42 tests looks comparable with historical data in terms of accuracy and variability. He noted that the variability of Carbon/Varnish ratings in the L-60-1 test appears to be higher than it has been in the past, and indicated that the Gear Rating Task Force is looking for ways to address this issue. One experiment the raters intend to conduct will be to determine if rating the L-60-1 gears in a rating booth, such as is used to evaluate the parts from some stationary engine tests, will reduce the variability of the results being obtained. The raters will also evaluate the effect of using a fixture to hold the test gears at a consistent angle and distance from the rater's eyes. The results of these investigations will be provided to the L-60-1 Surveillance Panel for their review and consideration.

## Old Business

None

## New Business

None

## Next Meeting

The next meeting will be held at the call of the Chairman

## Adjournment

The meeting was adjourned at 11:27 am



Jerrold L. Gropp  
Chairman, ASTM Section D02.B0.03

# ASTM Section D02.B0.03

August 12, 2009

## Agenda

- Membership
- Discussion of process for introduction of new test stands and calibration of existing test stands
- Review of July 21, 2009 Rating Workshop and related items
- Old business
- New business

ASTM Section D02.B0.03 Membership/Mailing List

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72 B	Brosnan, Bridget		US Army TACOM RDTA-TP 6501 E 11 Mile Rd. Warren, MI 48097	Phone: 586-574-4221 E-Mail: bridget.brosnan@us.army.mil
DRB	Bell, Don	Voting	Afton Chemical Corporation 500 Spring Street Richmond, Virginia 23219	Phone: 804-788-6332 E-Mail: Don.Bell@aftonchemical.com
	Bryson, Tom		Volvo Powertrain NA 13302 Pennsylvania Avenue Hagerstown, Maryland 21742	Phone: 301-790-5454 E-Mail: thomas.bryson@volvo.com

\* Initial to indicate attendance at subject meeting

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	Dharte, John		American Axle & Manufacturing 2965 Technology Drive Rochester Hills, Michigan 48309-3589	Phone: 248-299-6478 E-Mail: Dhartej@aam.com
	Eliot, Stephen W.		ExxonMobil Lubricants & Specialties 18486 Lanier Island Square Leesburg, Virginia 20176	Phone: 703-669-9916 E-Mail: stephen.w.eliot@exxonmobil.com
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# Gear Oil Testing Lab Efficiency

ASTM Gear Lubricant Section Meeting

August 12, 2009

TACOM

Warren, Michigan



# Economics

- Industry has changed in last 10 years
- Mergers
- World Economy Status
- No major field failures
- No major lubricant spec. changes





# Lab Operations Today

- Must maximize efficiency of lab operations
- Must have maximum testing flexibility
- Must have quick customer response time
- .....And still provide quality testing



# Limitations

- Many current ASTM procedures and practices go counter to the needs of the test providers and the needs of the test users.
- Many TMC procedures and practices do the same.
  - TMC must follow wording of the standards
- Times have changed. Testing equipment has evolved.
- More history/reference results are available for most test types.





# Examples

- Two new batches of L-37 axles require about 30 tests per lab to approve (120 total if all labs purchase). PCMO's new VID test was accepted with 44 tests total from the industry.
- TMC stand fee is now \$6750 per 6 months and has increased from \$3685 in 2003 as stand count dropped. No mechanism for idling stands.
- Many stands fall out of reference on time rather than on test count. (Even when there is only one stand per lab)
- It is time to revisit the following:



# Test Monitoring Board / TMC

## Action Item

- Presentation made on June 22<sup>nd</sup> by Lee Grant.
- TMC will be looking at adopting a new fee structure for the gear lubricant stand referencing system at SwRI's request.
  - May need input from S.P.'s and other users
  - New system must allow stands to be held idle without penalty or fee
  - Must allow new stands to be added quickly to system at min. expense
  - Some associated changes in procedures and LTMS will be required to allow a new system to function.
  - Some of these will be listed in S.P. action section:





# Requests for S.P. Actions

- Test stand referencng
  - Revise definitions of “new stand”.
  - Extend periods for stands to be idle after reference expires.
  - Lower requirements for reref. of idle stands
  - Extend reference periods and cand. test counts
    - Look at history, Look at alarms vs. actions/findings



## S.P. Actions Needed, 2

- Extend instrumentation calibration periods
  - 6 months minimum
  - Larger candidate counts
  - Instrumentation technology is much improved
- Reduce reference oil type count for those Tests with more than two oils
- Simplify test and hardware approvals (reduced donated runs)





## S.P. Actions Needed, 3

- Reduce the use of “fail” oils.
  - Use only for new test development and other special cases
  - Not part of routine test monitoring
- Allow donated tests (oil/ hardware/ procedure approval) to be run on stands recently out of reference



## S.P. Actions Needed, 4

- Allow donated tests to NOT count against candidate stand reference test count.
- Lower variable count for future matrix programs which use donated tests.
- Drop requirement for reference report hard copy to be shipped to TMC
  - Savings for labs and TMC.





## S.P. Initiatives

Request that these items be reviewed, discussed, and addressed by each gear lube S.P. prior to the end of this calendar year

