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Committee D02 on PETROLEUM PRODUCTS AND LUBRICANTS

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December 29th, 2009

Reply to:
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ASTM D02.B0.03 L-37 Surveillance Panel
Members and Guests:

Attached for your review and comment are the unconfirmed minutes of the:

- **December 17th, 2009 L-37 Surveillance Panel Meeting Teleconference**

Please direct any corrections or comments to my attention.

Sincerely,

Galen Greene, Chairman
L-37 Surveillance Panel

**Report of Meeting
L-37 SP TC Meeting**

December 17th, 2009

Attendees:

Dana -	Guzikowski, Pappademos
SwRI -	Koehler
Lubrizol -	Gropp, Greene , Martin
Afton -	Koglin
Intertek-Parc -	Smith
TMC -	Lind
Chevron -	Haire
Arvin Meritor -	McGlone

Voting Members in **BOLD**

The meeting was called to order at 10:30 am EST.

1.0 Summary of Meeting Discussions

1.1 Reduced Load Data Review and Discussion

The group reviewed the reduced load test data from the TMC website. The consensus was that the data looked fairly good, with the exception of the TMC 153 Lubrified. After discussion, the group wasn't as concerned with the poor results on TMC 153 as this oil has limited data from the past and will not be supplied to the TMC in the future.

The group discussed the use of TMC 153 and it was decided to drop it from the matrix for three main reasons. First, the oil has limited history when compared the other two good reference oils. Second, before the recent hardware challenges, this oil seemed to perform less consistent as more runs were gathered when compared to early testing on this oil. Third, the oil will no longer be supplied to the TMC and therefore has limited opportunities for future usage.

After further discussion, the following motion was made:

Motion # 1 → Mr. Koehler/second Mr. Koglin to proceed with full approval matrix on both Plain and Lubrified hardware for the reduced load test conditions with the stipulation that the 153 oil is not included in either matrix. The remaining portion of test matrix will be designed to minimize test runs while satisfying statistical needs. Current existing results will be included where applicable. The Lubrified matrix will be split evenly between production assembled and retrofit assembled hardware. Testing on TMC 152 will include Canadian and standard test conditions. Motion for approval was passed with a vote of 6 for, 0 opposed, and 1 abstention.

ACTION ITEM #1: (from 12/10/2009 HTF TC) Mr. Greene to ship ring and pinions from the V1L500/P4L870A batch to Dana Maumee for use in retrofitting 20 axles for use in the approval matrix. **Complete 12/15/2009**

1.2 Test Matrix

The group will proceed with the following approval matrix:

Non-Lubrited:

Oil	Conditions	Total	LZ	SwRI	Afton
TMC 134	Standard	4	1	2	1
TMC 152	Standard	8	3	3	2
TMC 152	Canadian	8	2	3	3
TMC 155	Standard	8	2	3	3

Lubrited:

Oil	Conditions	Total	New Axle	LZ	SwRI	Afton	PARC	Rebuilt Axle	LZ	SwRI	Afton	PARC
TMC 134	Standard	4	4	2	0	2	0	0	0	0	0	0
TMC 152	Standard	8	4	2	0	2	0	4	0	2	0	2
TMC 152	Canadian	8	4	2	0	2	0	4	0	2	0	2
TMC 155	Standard	8	4	2	0	2	0	4	0	1	0	3

The group decided to split the Lubrited tests across both the original manufactured axles and the rebuild axles.

All labs will try to run their portion of the matrix tests as quickly as possible.

ACTION ITEM #2: Mr. Miller to review all contact patterns of the rebuilt axles to be used for the matrix program.

ACTION ITEM #3: Mr. Horvath to review the use of thin shims and try to eliminate the use because of the problems seen in previous retrofitting with shims dislodging.

1.3 Stand Referencing

Mr. Koglin asked the question on how we would reference this test if this new version was approved. Would referencing the stand on the reduced load version allow the lab to run both full load and reduced load tests and vice versa? It was decided to table this discussion at the time and discuss it when the group was ready to approve the reduced load test version.

1.4 Use of TMC 153

The group discussed whether or not we should use TMC 153 for regular stand referencing in the future since it was not going to be used on the reduced load test matrix. The group decided to also table this discussion until the group was ready to approve the reduced load procedure.

1.5 Use of Lubrited Test for Stand Qualification

The group discussed the possibility of leaving the Lubrited test out of the referencing system even after a new Lubrited batch is approved. Mr. Koehler explained that the Lubrited test has been hard to use for detecting stand issues and it also doubles the length of time to detect a shift in test severity. This item was also tabled for discussion when we approve the next Lubrited batch.

3.0 Adjournment

Meeting Adjourned at 11:50 am EST

Respectfully submitted,

A handwritten signature in blue ink, appearing to be 'Galen Greene', written in a cursive style.

Galen Greene
L-37 Surveillance Panel Chairman