

Report of Meeting
L-37-1 Task Force Meeting
PRI Headquarters
Warrendale, PA

August 8th, 2012

Attendees:

SwRI -	Koehler , Thorpe
Lubrizol -	Venhoff , Gropp, Hamilton, Umerley
Afton -	Gottwald , Bell, Boschert
Intertek -	Smith , Trader
TMC -	Parke , Clark
Meritor -	McGlone
ExxonMobil -	Banas, Kanga
Chevron -	Zakarian
Eaton -	Marougy
BASF -	Greene
AAM -	Dharte

Voting Members in **BOLD**

The meeting was called to order at 2:50 pm EDT.

1.0 Membership Review

Motion # 1 → D. Smith / 2nd T. Gottwald to add **Galen Greene** from BASF to voting member status. Motion was approved with a unanimous vote.

2.0 Approval of Meeting Minutes

- **May 9, 2012 (Automation Alley – Troy, MI)**

Motion # 1 → J. Zakarian / 2nd B. McGlone to approve the minutes as presented. Motion for approval was passed with a unanimous vote.

3.0 Summary of Meeting Discussions

2.1 Review of initial pilot batch results

The group reviewed test data from the pilot batch of AAM hardware purchased earlier this year for further procedure development work. The initial testing work on the lubrited hardware seems to be headed in the right direction with the TMC pass/fail reference fluids discriminating as one would expect. The focus then shifted to the non-lubrited batch of hardware. The TMC fail oil (TMC 134) seems to be very severe on this hardware type, causing some tests to abort early due to high axle vibration or catastrophically fail all together due to broken gear teeth. Much discussion followed. Are there concerns regarding the hardware? What issues may we be encountering due to the cooling strategy we adopted (pinion bias spray)? These are just some examples of the issues that were covered during this discussion. Given the limited test data that exists, the test appears to be right on the edge. Afton recently ran some field oils at SwRI and at our telecon next week they should have results available to share with group. Once those results are reviewed by the group a direction moving forward will be chosen.

2.2 Review of proposed qualification matrix

Due to some of the concerns expressed above, discussion of a qualification matrix has been tabled until some further procedure development work has been completed.

3.0 New Business

The chairman shared an email inquiry from PetroChina with group regarding the L-37-1 task force group and their wish to join the group. If PetroChina wishes to contribute testing to this group, the first step for them is to become part of the ASTM Test Monitoring System. Until that happens, PetroChina will be included in meeting agenda distribution and meeting minute distribution only, and will not be allowed to actively contribute testing results to this task force. It is imperative that they follow the same rules and regulations the other labs abide by to be considered an approved testing laboratory. An email indicating the above stance will be sent to PetroChina by the task force chairman.

4.0 Adjournment

Motion to Adjourn by D. Smith / 2nd T. Gottwald. Meeting adjourned at 4:10 pm EST.

Respectfully submitted,

Wes Venhoff
L-37 Next Generation Task Force Chairman

Industry Oil Code (TMC Oil)	Test Version (Standard or Canadian)	Hardware Identification	Lab	Stand	EOT Date	Pinion Rating					Ring Rating					Free-form Comment
						WEAR	RIDG	RIPP	SPIT	SCOR	WEARR	RIDGR	RIPPR	SPITR	SCORR	
IND	TVERSION	SERIALNO	LTMSLAB	LTMSAPP	LTMSDATE											COMMENT
134	STANDARD	GGAD120036- - - - -	B		20120413											Non-lubrited AAM Zeta axle - Batch 2012. Conducted per Lubrizol proposed procedure. Test ran for 11hrs. - all teeth broken, catastrophic failure. Last 5 digits of serial number missing.
134	STANDARD	GGAD12063093932	A	5	20120414	6	6	8	9.9	10	6	6	10	9.9	10	This is a non-lubrited AAM Zeta axle - Batch 2012. Conducted per Lubrizol proposed procedure.
134	STANDARD	GGAD12063092414	B		20120427						5	6	10	9.9	10	Non-lubrited AAM Zeta axle - Batch 2012. Conducted per Lubrizol proposed procedure. Test ran for 11.25hrs. - all teeth broken, pinion unrateable.
134	STANDARD	GGAD12063130725	D	3	20120505	7	6	9	9.9	10	7	7	10	10	10	Lubrited AAM Zeta axle - Batch 2012. Conducted per Lubrizol proposed procedure. 7 spall on inner cone of head bearing.
134	STANDARD	GGAD12047090125	D	3	20120515	7	7	7	9.9	10	7	8	9	10	10	Non-lubrited AAM Zeta axle - Batch 2012. Conducted per Lubrizol proposed procedure. Broken teeth on pinion. Damage to ring. Shut down due to vibration at 15 hrs 37 min (on test).
134	STANDARD	GGAD12063112723	D	3	20120519	7	7	9	9.9	10	7	7	9	9.9	10	Non-lubrited AAM Zeta axle - Batch 2012. Conducted per Lubrizol proposed procedure.
134	STANDARD	GGAD12063134922	B		20120521	6	4	7	5	10	6	4	10	9.9	10	Non-lubrited AAM Zeta axle - Batch 2012. Conducted per Lubrizol proposed procedure. High vibration at 8.5hrs. - pinion teeth cracked.
134	STANDARD	GGAD12063122708	A	5	20120720	6	5	10	10	10	6	6	10	10	10	This is a lubrited AAM Zeta axle - Batch 2012. Conducted per Lubrizol proposed procedure.
155	STANDARD	GGAD12063132945	B		20120406	7	7	9	9.9	10	7	8	10	9.9	10	Lubrited AAM Zeta axle - Batch 2012. Conducted per Lubrizol proposed procedure.
155	STANDARD	GGAD12063124110	A	5	20120425	7	8	9	9.9	10	8	9	10	9.9	10	This is a lubrited AAM Zeta axle - Batch 2012. Conducted per Lubrizol proposed procedure.
155	STANDARD	GGAD12047090210	D	3	20120504	7	7	10	10	10	7	7	10	10	10	Non-lubrited AAM Zeta axle - Batch 2012. Conducted per Lubrizol proposed procedure. Cracked tooth on ring gear
155	STANDARD	GGAD12063140809	D	3	20120517	7	7	10	9.9	10	7	8	10	10	10	Lubrited AAM Zeta axle - Batch 2012. Conducted per Lubrizol proposed procedure.
155	STANDARD	GGAD120631- - - - -	D	3	20120518	7	8	10	9.9	10	7	8	10	9.9	10	Lubrited AAM Zeta axle - Batch 2012. Conducted per Lubrizol proposed procedure. Last 5 digits of serial number missing.
155	STANDARD	GGAD12063093332	B		20120621	8	9	10	9.9	9	8	9	10	9.9	10	Non-lubrited AAM Zeta axle - Batch 2012. Conducted per Lubrizol proposed procedure.
155	STANDARD	GGRD12063092600	A	5	20120721	7	8	10	9.9	10	7	8	10	9.9	10	This is a non-lubrited AAM Zeta axle - Batch 2012. Conducted per Lubrizol proposed procedure.

ASTM L-37 Surveillance Panel Membership/Mailing List

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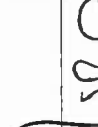
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