

Report of Meeting
L-60-1 Surveillance Panel
Feb. 11th, 2025

Attendees:

SwRI -	Wright , Charron, Lange
Lubrizol -	Schaup , Westmoreland, Janca, Grewe, Arnold
Afton -	Sangpeal , Bell, Campbell, Horvath
Intertek -	Murray , Portell
TMC -	Beck , Venhoff, Transue
BASF -	Goyal, Caridi , Mosher
Dana -	Gibson
Cummins-Meritor -	Carowick , Catania
Army -	Comfort , Thrash
Dauch -	Muransky , Zarins
Fuchs -	Bender, Maxim
Oronite-	Warden
Shell-	Uy
Exxon-	Jetter
Daimler Truck NA-	Vander Wal
Richful Lube Additives-	McCollum
International Motors-	Jeanelle
VBase-	Hunt

Voting Members in **BOLD**

1.0 Membership Review

Motion #1 → **Muransky 1st /Lange 2nd** Updated membership changed voting member from Arjun Goyal to Margret Caridi. **Motion passed unanimously, 14-0-1(Yes-No-Abstain)**

2.0 Meeting minutes Approval

Motion #2 → **Muransky 1st /Carowick 2nd** approve the meeting minutes from the Aug 13th, 2025 , ASTM Meeting. **Motion passed unanimously, 14-0-1 (Yes-No-Abstain).**

3.0 Action Item Review

Previous Action Items:

- Schaup to reach out to the stats group for both Industry alarm review over the past 4 years and recommendations on approval matrices for both leaded gears from AAM and non leaded gears from Boston Gear (Open, request for support was submitted)
- Schaup to get quotes from Dauch (formerly AAM) for leaded gears. (closed, individual quotes will be distributed to each of the labs)
- Bi Weekly meetings to be held until a path forward with hardware is solidified. (open, meetings are being held)

4.0 Quote from Dauch

- The quote from Dauch (AAM) is below, it is also attached in the appendix. For ease of fulfillment this quote will be broken evenly into 4 quotes for each lab.
- From this discussion a meeting will be held with Sherry from Dauch to ensure we are getting the desired material, as well as the viability of each material.
- A quote for the total hardware for each lab will be requested as well so that labs can adjust quantities if needed due to price.

Attn: Nick Schaup

Re: **RFQ# 01132026 Spur Gears for L-60 Testing**

AAM is pleased to quote the pricing and timing for the following unit(s) through our Global Prototype Department.

Part Number/Description	Qty	Piece Price	Tooling	Timing
GA34	16	\$702.00	\$4,000.00	14 Wks. ARO
GA50	16	\$683.00	\$4,000.00	14 Wks. ARO

5.0 Reusable Gear Experiment

- All labs completed the reusable gear runs. Two labs were within all limits on both tests, two labs were out of limits on C/V.
- It was noted that one lab used solvent to clean the gears after they were removed from the Penmul. The document that was used to instruct the labs on the process called for water. This document will be attached in the appendix.
 - The process was updated slightly to include a statement that the gears should be installed so that the orientation of the gears are the same as the original test.
 - The gears will also now be required to be cleaned with a solvent (heptane) after they are removed from the sonic cleaner and rinsed with hot water.
- This experiment will be run on the inverse reference oils to further investigate the viability of re-using gears. Original run(s) were on 155-2, one was re-run on 155-2 and one was run on 145. The labs will run gears that were originally run on 145, one will be re-run on 145 and the other will be run on 155-2.

6.0 Old Business

7.0 New Business

8.0 Action Item Summary

- Action Item #1: Nick Schaup is to coordinate the purchase of the pilot batch with Dauch
- Action Item #2: Nick Schaup is to hold Bi-weekly meetings to facilitate an expedited solution to the hardware shortage in the industry.
- Action Item #3: Nick Schaup to work with Dauch to get 5 year quotes for each lab so that quantities can be adjusted for price if necessary.

9.0 Adjourn

Motion #3 → Schaup 1st /2nd Muransky to adjourn. Motion passed unanimously, 14-0-1 (Yes-No-Abstain).

Respectfully submitted,

Nicholas Schaup
L-60-1 Surveillance Panel Chairman



D02.B0.03

L-60-1 Surveillance Panel Meeting

2/11/2026

Nick Schaup

Agenda

- Call to Order/Agenda review
- Membership review
- Meeting Minute Approvals
 - Nov 12th 2025, Surveillance panel meeting
- Action Item Review
- Quote discussion AAM leaded gears
- Reusable gear experiment data/process review
- Old Business?
- New business
- Adjournment



Membership Review

Allen Comfort	US Army
Trevor Gibson	Dana
Arjun Goyal	BASF
Micheal Portell	Intertek
Jessica Carowick	Cummins
Wes Venhoff	TMC
Nick Schaup	Lubrizol
Matt Sangpeal	Afton
Payton Wright	SwRI
Steve Jetter	ExxonMobi
Troy Muransky	AAM
Rebecca Warden	Oronite
Clarence McCollum	Richful
Andrew Smith	Infinium
Camden Vander Wal	Daimler
Addison Schweitzer	Shell



Meeting Minutes Approval

– Nov 12th, 2025, Surveillance Panel Mtg

Action Item Review

- Pilot batch Purchase
 - Quote to be reviewed with the committee
- Bi weekly meetings
 - Ongoing
- Minimum batch quantity from Boston gear
 - Closed, no minimum quantity is required



Quote from AAM

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The total for this quote is \$30,160 for 32 gears.

Reusable Gear experiment process

- Does the orientation of gear relative to its initial run cause concern for anyone?
- Any other thoughts or concerns around the process?

Reusable Gear experiment data

- TMC to present.



D02.B0.03

Old Business

New Business

Adjournment

Gear Cleaning Procedure for used L-60 Gears:

Testing must be done on gears that were used in a reference test. Tests must be run in a referenced test stand, and runs will be credited to the allowable non reference test count

Labs to attempt to run these tests by April 1st

All CMIRS sent to the labs for Gear identification will be previously assigned 145 runs

Penmul soak for 24 hours, wash off with water, use nylon brushes to remove excess debris

Inspect gear teeth to ensure nothing is left over from previous test

Put used gears in the sonic cleaner for 1 hour and 40 minutes

After removal from sonic cleaner, rinse the gears with hot water, heptane and then coat gears in EF411 and wrap in anti-rust packaging

Prep the gear surface using the ASTM L-60 procedure, be sure to lap each gear side 80 times.

Gears must adhere to all requirements in ASTM L-60 procedure from this point forward

Install the gears in their original orientation (as tested the first time)

Record the time that the gears were prepped so that it can be compared against the test start time.