

October 31, 2017

Meeting Minutes: Surveillance Panel Meeting May 3, 2017, 1:00 pm – 2:00 pm EDT

See attendance sheet for members in attendance.

- The L33-1 committee membership was reviewed
 - Eaton – no replacement has been identified yet
 - Kristijan Drlja will replace Matt Umerley as voting member at Lubrizol.
- Meeting minutes from November 2017 ASTM meeting were reviewed. Motion was made by Angela Trader to approve. Motion was seconded by Wes Venhoff. Motion carried unanimously by 5 voting members present.
- A procedure clarification to more clearly define the part number for the L33-1 blasting gun assembly and nozzle was proposed. In the clarification, language was added to specify the nozzle installation direction. A motion to accept the verbiage change was made by Kristijan Drlja and seconded by Eric Donovan. The motion passed unanimously.
- Another procedural clarification regarding the specification of the storage box fan was proposed. A motion to accept the verbiage was made by Rebecca Warden and seconded by Kristijan Drlja. The motion carried unanimously.
- There was some additional discussion centered around the frequency of changing the blasting media. The frequency is currently specified to be changed after every 15 tests. However, since the AAM hardware is much larger, the question of whether the blast media should be changed more frequently came up. The labs chose to table the discussion until the next meeting.
- The TMC presented updated targets for both reference fluids. However, since fluid 123-2 had only 14 reference tests and fluid 155-1 had only 18 reference tests, the labs decided to wait until both fluids had more than 20 tests to update the targets.
- Motion was made to adjourn the meeting by Rebecca Warden and seconded by Wes Venhoff and carried unanimously.

Respectfully

Angela Trader
Senior Project Engineer



L33-1 SURVEILLANCE PANEL MEETING

Automation Alley - Troy, MI

Angela Trader – Senior Project Engineer
May 4, 2017 1:00pm – 2:00pm



AGENDA

01 Call to Order

02 Membership Review

03 Approval of Meeting Minutes

04 L33-1 Procedural Clarifications

05 Precision Statement Update

06 New/Open issues

07 Adjournment





MEMBERSHIP REVIEW

Voting Members:

- Greg Shank – Mack
- Allen Comfort – US Army
- John Dharte – AAM
- Eric Donovan – Afton
- Rob Banas – ExxonMobil
- ?? – Eaton
- Jule Rucker – Meritor
- Scott Parke – TMC
- Angela Trader – Intertek
- ?? – Lubrizol
- Chintan Ved – Ford
- Rebecca Warden – SwRI
- Khaled Zreik - GM

APPROVAL OF MEETING MINUTES



Surveillance Panel Meeting Minutes

- SP Meeting 02NOV2016
 - (20161102 SP.pdf)



L33-1 PROCEDURAL CLARIFICATIONS: BLASTING GUN SETUP

As currently written:

6.2.9.3 *Blasting Gun Setup:*

- (1) Grainger Econo-Line 12 ft³/min Gun Assembly, Grainger Item No. 3JT01.^{12,7}
- (2) Grainger Econo-Line tungsten carbide Nozzle Tip 1/4 in. I.D.
- (3) Grainger Item No. 3JT0813, Change after fifteen L-33-1 units are blasted.
- (4) Grainger Econo-Line Air Jet 12 ft³/min, Grainger Item No. 3JT04.^{12,7}

Proposed new text:

6.2.9.3 *Blasting Gun Setup:*

- (1) Grainger Econo-Line 12 ft³/min Gun Assembly, Grainger Item No. 3JT01.^{12,7}
- (2) Grainger Econo-Line tungsten carbide Nozzle Tip 1/4 in. I.D. , Grainger Item No. 3JT08. Change after fifteen L-33-1 units are blasted. ^{12,7} Take care to install this nozzle with the smaller opening facing out. The nozzle's shape makes it possible for it to be installer incorrectly.
- (3) Grainger Econo-Line Air Jet 12 ft³/min, Grainger Item No. 3JT04.^{12,7}



L33-1 PROCEDURAL CLARIFICATIONS: STORAGE BOX FAN

As currently written:

- 6.2.7 *Storage Box and Temperature Control System, Storage Phase*—During the storage phase of the test, a double-walled aluminum or stainless steel box covers the differential housing assembly. An RTD or thermocouple (J or K type) in conjunction with the controller regulates heat input from four strip heaters giving a total output of 1700 Btu/h (500 W). **A small electric fan, rated at 1550 r/min, turns a fabricated impeller at (1700 ± 100) r/min to provide air circulation within the box.** Control the bulk oil temperature at $125 \pm 1^\circ\text{F}$ ($52 \text{ }^\circ\text{C}$ $6 \text{ }^\circ\text{C}$). Fig. A5.5 shows details of the impeller. Fig. A5.6 shows construction and electrical details of this box.

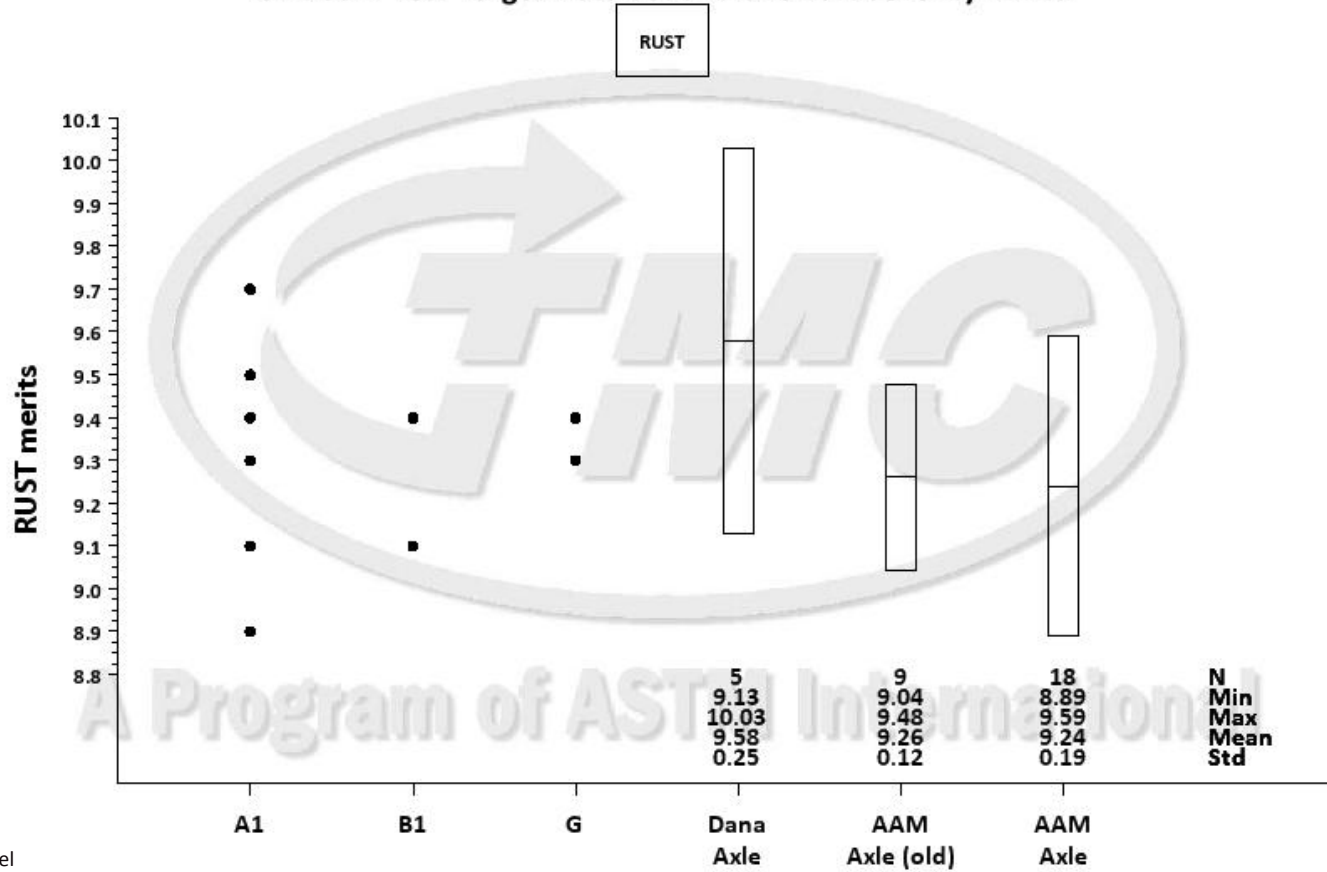
Proposed new text:

- **A small electric fan, rated at 1550 r/min, turns a fabricated impeller at (1700 ± 100) r/min to provide air circulation within the box.**

L33-1 PRECISION STATEMENT UPDATE: 155-1 TARGETS



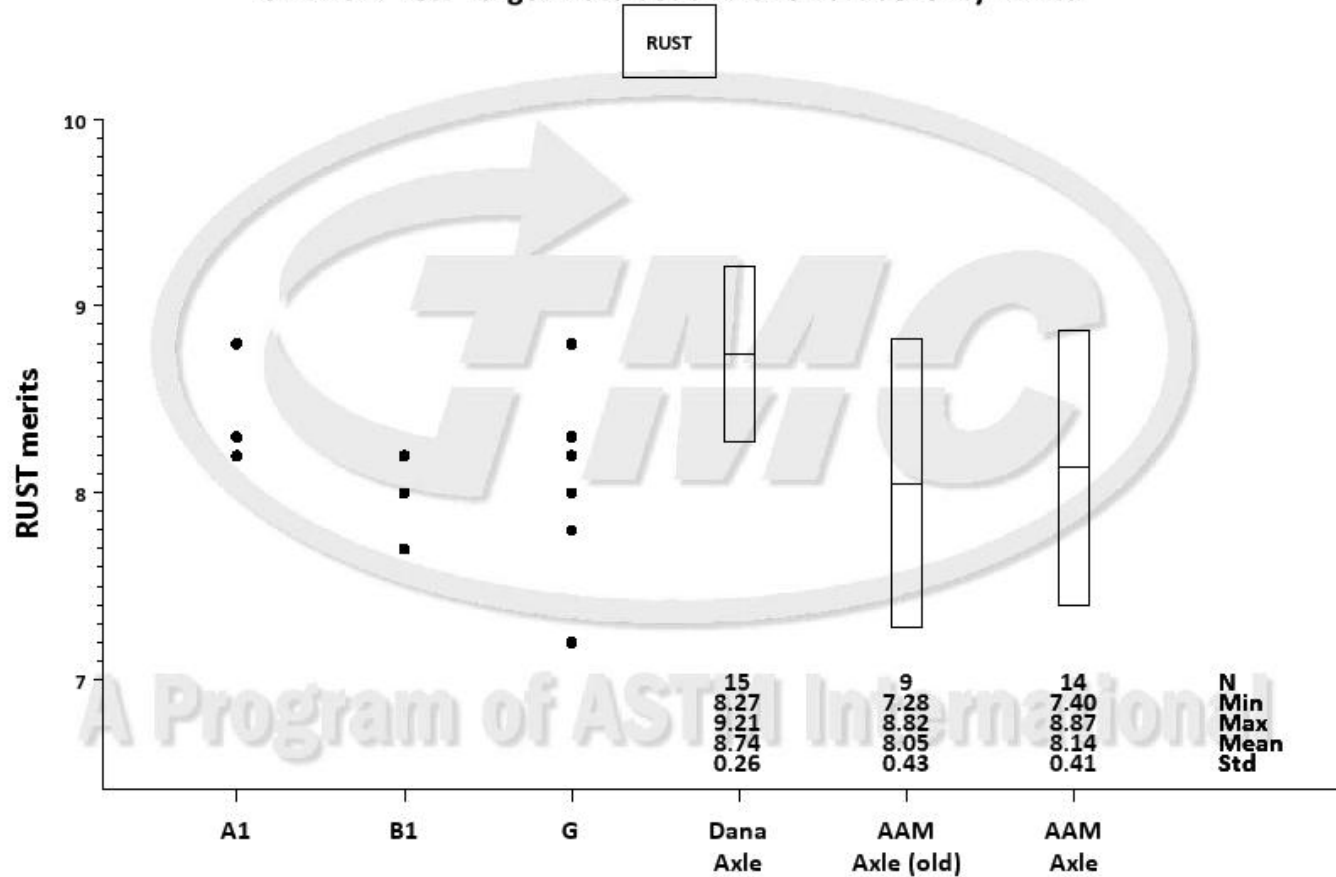
L-33-1 AAM K2XX Hardware
Oil 155-1 Test Target Data Set and Shewart Severity Limits





L33-1 PRECISION STATEMENT UPDATE: 123-2 TARGETS

L-33-1 AAM K2XX Hardware
Oil 123-2 Test Target Data Set and Shewart Severity Limits



L33-1 PRECISION STATEMENT UPDATE



TABLE 2 Test Precision

Current:

Variable, merits	Intermediate Precision		Reproducibility	
	$S_{I.P.}^A$	i.p. ^B	S_R^A	R^B
Rust ^C	0.25	0.70	0.25	0.70

New:

Variable, merits	Intermediate Precision		Reproducibility	
	$S_{I.P.}^A$	i.p. ^B	S_R^A	R^B
Rust ^C	0.19	0.54	0.19	0.54

^A S = standard deviations.

^B This value is obtained by multiplying the standard deviation by 2.8.

^C These statistics are based on results obtained on TMC Reference Oil 151-3 from June 24, 2002 to Oct. 1, 2003. (old) or

^C These statistics are based on results obtained on TMC Reference Oil 155-1 from June 15, 2015 to January 26, 2017. (new)

* dataset for update includes all matrix and chartable tests used for LTMS target generation

NEW/OPEN ISSUES



Any new business?

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ASTM D 7038 L-33-1 SURVEILLANCE PANEL PARTICIPANTS LIST
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