

L-37 Surveillance Panel Teleconference Minutes Tuesday, 09/30/2008

Attendees:

Dana -
SwRI -
Lubrizol -
Afton -
Park -
TMC -
DA Stuart -

Basset, Pappademos, Miller, Fett, Guzikowski, Horvath, Okamuro
Koehler
Bartlett, Gropp, Greene
Koglin
Smith
Lind
Vettel

7 voting members

The L-37 Surveillance Panel teleconference call was directed to convene at this time by the Panel at its September 18th teleconference meeting to review testing options and progress to date.

Agenda:

- o Approve the September 18, 2008 SP teleconference meeting minutes.
- o Review pending action items.
- o Next step with SwRI modified test condition matrix.
- o Adopting use of SI units wherever possible proposal by Lyle Bowman.

Approval of Minutes

September 18, 2008 corrections to original minutes from Mr. Gropp:

- Page 4, first paragraph, replace the first two sentences with . . . “with respect to LRI investigation into shear stability, a few years ago, the LRI asked those organizations who were presenting L-37 and L-42 test data to determine the end-of-test viscosity of the oils evaluated in these tests. The LRI wanted to determine if this information might provide some indication of the oils’ resistance to shear. The results of this investigation indicated that these tests did not cause the oil to shear to any significant/measurable extent”.
- Page 4, 4th paragraph replace the 1st paragraph . . . “with respect to adjusting the torques, while this is not a desirable answer, it is one that he would be willing to accept if it must be done. That is why we are currently looking at modifying the torque as one possible way to salvage this batch of hardware. He does not believe, however, that we should plan on doing this on a routine basis (to compensate for variability in the test hardware). Our emphasis should be on manufacturing consistent batches of hardware so that we may continue to use a fixed set of test operating conditions”.

Motion #1: Mr. Koehler/Second Mr. Smith– That the September 18, 2008 meeting minutes be approved as corrected. Motion passed unanimously with a voice vote of 7-0-0.

[Retrofit Lubrified Hardware – Review and Discussion](#)

Prior Action Item Review & Update:

→ **Ramsey**– Mr. Ramsey to work with chairman to address a Dana refund to the industry labs since the hardware has already been paid for. Mr. Ramsey noted that there are 32 unusable Axles. He needs the qty and PO number for each lab in order to issue credit. The labs were asked to send their PO numbers and count to the chairman who would detail the information in a spreadsheet and forward on to Mr. Ramsey. **Open**

→ **Dana/Labs** - At the September 4 panel teleconference call the labs were directed to convene and draft a letter to Dana representatives specific to laboratory questions and issues. The labs teleconferenced on September 4, drafted and sent the letter to Dana representatives Brazeau, Miller, Ramsey, Fett and Guzikowski. Letter was also included as attachment # 2 of the September 4 panel meeting minutes. Dana was asked to respond to the questions by September 18th panel teleconference meeting. **Open**

- Attachment #_1, dated 9/30/2008, details the Dana response to our questions. Summary is:
 - Root Cause Analysis - Dana continues to test materials and specifications.
 - Warranty - All claims will be reviewed based on the standard warranty when submitted.
 - Steel leftover – from 2007 batch order, none.

→ **Ramsey** to quote for ring and pinion only, will work with labs. **Closed**

- Attachment #_1 dated 9.30/2008, details the Dana response to our questions. Summary is:
 - Gear Set Quote - Non - Lube = \$ 198.80 each.
 - Lube = \$ 205.92 each.
 - Based on pre axle build of sufficient qty for matrix test verification to qualify hardware prior to complete run to confirm successful test before processing total order.
 - Lead-time - 6 months

- **Dana/SwRI**– Per motion at the September 18, 2008 Panel teleconference, SwRI to conduct 4 tests on the next standard lubrified retrofit build; one each on TMC 134, 152-1, 153-1 and 155 using some Dana identified reduced torque load.
 1. **Gear Conditioning Phase** will be conducted per the Standard, no change.
 2. **Gear Test Phase** – Test alternate conditions will be provided by Dana:
 - 80 wheel rpm and xxx lbf-ft torque per wheel.
 - Axle oil temperature will be the same as a standard test.
 - Test length will be 24 hours of on-test time. **Open**

Discussion and Comments

- **Okamuro/Miller** – Attachment #_2 summarizes the chairman’s letter to the labs and Dana with recommended changes by Mr. Miller & Okamuro. A review of corner polish for the toplands was detailed.
- **Horvath** – Status of 40 Axle builds and shipment is that 8 axles are assembled and they can do about 5 a day.

So far, the builds for this batch, the first 8 look good. The pinion top land re-polish is just precautionary to confirm removal of the corner 'proud' material caused by the shot peening process. Four more random stock gears were to be pulled, sectioned, mounted, and looked for random proud material. That has not happened yet. Maumee to work to insure that Ft. Wayne have the four gears sets by Friday, October 3rd.

- **Gropp** - questioned if this would be done to all of the remaining pinions moving forward, especially since we are performing this operation on the 40 and doing further matrix work. If the outcome looks promising, should that not be done to the remainder before build out?
- **Okamuro** – commented that there was a question on how consistently the top land polish was. This was a standard operation and wanted some confidence that it was consistent.
- **Position by lab** comments on Mr. Gropp's question:
 - SwRI – modifications, what ever is done to the 40, the same gets done to the remaining gear sets
 - Intertek – Supported the SwRI position.
 - Afton – Yes, as long as the 10 axles provide positive results.
 - TMC – Agree on the question, had another question: 1) Did all 40 pinions get the polished operation using a different machine? 2) Why are we now looking at running with the modified torque conditions? He believes we should go back to the standard test conditions.
 - Okamuro suggested that we test a few at full load, but still need the analysis data from the four-sectioned pieces.
 - Lubrizol voiced support for the recommendation of the labs.
 - Horvath indicated that to get 10 axles to SwRI ASAP would be a change in the build alternation of retrofit axle assemblies between the four labs. The panel consensus was that Maumee should be 10 axles and immediately ship to SwRI so that they could arrive by the 8th or 9th of October. The other labs would receive their 10 axles each using the build assembly alternation. This would provide/leave the 'Kens' time to work on the modified torque load proposal for SwRI to run at.

Koehler – stated the SwRI preference would be to run a reduced set of loads for the four test oils and does not support running at normal test conditions.

Lind – does not agree, believes we should go back to normal test conditions because of the topland polishing process.

With respect to a L-42 Teleconference Call we agree that we need to review drawings for the next L-42 order. Attachment # 3 details the proposed quote from Dana for industry cost and timing of axles. We agreed to set aside weekly teleconference calls beginning on Tuesday, October 7th, to address drawing changes and start moving forward with this order.

Adopting Use of SI Units Wherever Possible Proposal by Lyle Bowman

Gropp – The section chair is looking for a response from the respective panels. Changing tools and measurement devices is an expense. He took the action item to copy Mr. Bowman. With respect to the L-37 D 6121, he will note that the Panel is under advisement and will ask that that all of the other respective panel chairman take a similar approach to their panels.

Smith – stated some of his labs concerns; mathematical equivalents are accepted for some period time. Questions what ISO 17025 requires, i.e., every gauge, software system, TMC form changes, etc.

Koehler - SwRI plans to run test in current units. Supports revising respective Standards with dual units, English first, SI in brackets.

Lind – commented that we should confirm labs will have to report data the same current way. There is no way to make a change mid stream in that this could/would make it most difficult in handling previous data with new SI requirements going forward from here. Statements can be made in the beginning section of each Standard indicating that we are conducting the tests in English units and a mathematical conversion to SI is acceptable and in brackets.

Koehler – questioned if there should have been an initial Test Monitoring Board meeting to decide where the decision would come from. We need an official viewpoint from someone to set a policy so we can all move forward. This impacts the other test areas, PC, diesels, etc.

Chairman's note of actions after this meeting: *Attachments 4* is a summary of information detailing communication and objective status to date. It also includes a response from the chairman to Mr. Bowman. *Attachment # 5* is the response from Mr. Bowman with his support for minor changes to this Standard. Please review as this will be one of the agenda items to take action on at the next Panel meeting of October 9.

New Lubrited Hardware – Discussion

Continued testing was put on hold by Panel as we focus the attention on the retrofit hardware first.

Non- Lubrited Hardware – Discussion

Continued testing was put on hold by Panel as we focus the attention on the retrofit hardware first.

- **Next Meetings will be a Surveillance Panel Teleconference**
- **Meeting Thursday, October 9th, 2008 at 10:00 a.m. EDI.**
- **Call in info is 608-250-0194, code 324160.**

Meeting adjourned at 11:32 a.m.



Donald T. Bartlett, L-37 SP Chairman

Bartlett, Donald

From: Bill.Ramsey@dana.com
Sent: Tuesday, September 30, 2008 9:46 AM
To: Bartlett, Donald
Cc: Kenny.Miller@dana.com
Subject: ASTM Questions

Don:

I have a standing call at 10 on Tuesdays. Please find below the answers for your questions

32 Unusable Axles- I need the qty and PO for each lab in order to issue credit

Root Cause Analysis - Dana continues to test materials and specifications.

Gear Set Quote - Non - Lube = \$198.80 each, Lube = 205.92 each - based on pre axle build of sufficient qty for matrix test verification to qualify hardware prior to complete run to confirm successful test before processing total order.

Warranty - All claims will be reviewed based on the standard warranty when submitted.

Steel leftover - No

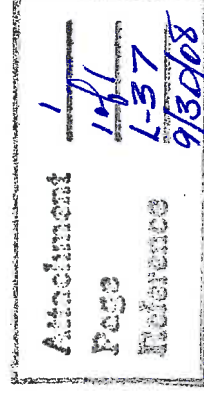
Lead-time - 6 months

Thanks
Bill

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10/06/2008

Bartlett, Donald

From: Bartlett, Donald
Sent: Wednesday, September 24, 2008 12:17 PM
To: 'Kenny.Miller@dana.com'; bkoehler@swri.org; 'Dale Smith Intertek'; 'Koglin, Cory'; X-Don M. Lind
Cc: okamuro@roadrunner.com; Mark.Bassett@dana.com; Bob.Sullivan@dana.com; Greene, Galen; Graziano, Ricki
Subject: RE: Update and request, ref. L37.
Importance: High

Kenny,

Thank you for the update. It is decision time and you can all shoot me later. Last week during our September 18 Panel teleconference we changed the Thursday, September 25 teleconference to Tuesday, September 30. With that said, I see no value in calling an impromptu teleconference that all would not be able to participate in.

Therefore Kenny;

1. Please call Greg, Joe and/or Mike Horvath and let them know that I support stopping the 40 axle build for this very short term as you outlined below.
2. Secondly, please contact the same individuals and, with my permission, take four ring and pinion gear sets from the retrofit lubrified hardware for destructive analysis work as you need and described below. The four labs will/should share in the loss of another axle build and we will work those details out later.

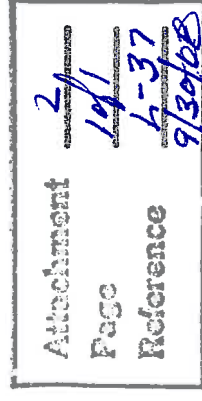
Again, I thought we should keep moving forward, please contact me if there are any further questions. Good Luck.

Thanks,

Don Bartlett

Office Phone: 440-347-2388 **Mobile:** 440-220-0843 **E-mail to:** dtb@lubrizol.com

From: Kenny.Miller@dana.com [mailto:Kenny.Miller@dana.com]
Sent: Wednesday, September 24, 2008 10:54 AM
To: Bartlett, Donald
Cc: okamuro@roadrunner.com; Mark.Bassett@dana.com; Bob.Sullivan@dana.com
Subject: Update and request, ref. L37.



Don,

We have been analyzing the EOT gearsets and are finding a number of pinion teeth with cracks through the tooth topland normal to the tooth flank. Ken Okamura has examined this and come up with a cause and effect scenario that we need to test to determine if this is the major contributing issue with the current lot. Unfortunately, the testing needed to get the information needed is destructive to the pinion. We believe we need (4) gearsets from the loose sets inventory at Maumee to do this testing on. We are asking to acquire these and do the destructive testing. Moreover, we are pulling back 40 gearsets for reworking the corner polish of the toplands and will proceed with the 40 axle build beginning tomorrow morning. This is in response to the new information we've gleaned. Thank you.

Kenny Miller
Gear Engineer
Heavy Vehicle Systems Group
Dana Holding Corporation
139 East Broad Street, Statesville, NC 28677
phone: (704) 878-5762

10/06/2008

Bartlett, Donald

From: Koglin, Cory [Cory.Koglin@AftonChemical.com]
Sent: Wednesday, September 17, 2008 11:04 AM
To: SwRI, Koehler, Brian; Bartlett, Donald
Cc: Higuchi, Samuel; dml@astmtmc.cmu.edu
Subject: FW: L-42 Orders

Brian/Don,

Please see the note from Bill below. I would like to request a few minutes at the beginning of the L37 SP Conference call tomorrow (after role call) to line up a time/date for a L42 TF conference call. Most likely, I will only ask for the presence of Kenny Miller at this time to update the drawings.

Cory Koglin
Afton Chemical
500 spring street
Richmond, VA 23219
P: 804-788-5305
C: 804-240-6573

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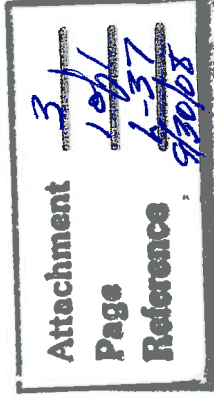
From: Bill.Ramsey@dana.com [mailto:Bill.Ramsey@dana.com]
Sent: Wednesday, September 17, 2008 10:54 AM
To: Koglin, Cory
Subject: L-42 Orders

CUSTOMER	CUST PO	NUMBE	ORDERED_ITEM	ORDERED_Q	SCHEDULE_SHIP_I
AFTON CHEMICAL CORPORATION	4283533	044AA100-1		208	12/1/08
LUBRIZOL CORPORATION	4500987876	044AA100-1		300	12/1/08
SOUTHWEST RESEARCH INSTITUTE	857008G	044AA100-1		275	12/1/08

Regards,
Bill Ramsey

Dana Holding Corporation
139 E Broad St
Statesville, NC 28677

704-878-5626 office
828-448-2723 cell
704-878-5633 fax



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10/06/2008

Bartlett, Donald

From: Bartlett, Donald
Sent: Wednesday, October 01, 2008 1:30 PM
To: Lyle Bowman; Allan Comfort ; Bartlett, Donald; bkoehler@swri.edu; Bruce.McGlone@ArvinMeritor.com; Dale Smith (Dale.Smith@intertek.com); Dhartej@aam.com; dml@astmtmc.cmu.edu; james.l.linden@gm.com; Juan Buitrago (jabu@chevrontexaco.com); Ken Miller; Koglin, Cory; pvette@dastuart.net; Salvatore Rea (salvatore.rea@infineum.com); thelmaemarougy@eaton.com; Tom Bryson (thomas.bryson@volvo.com)
Cc: Bartlett, Donald; Chris Barker; Don Bell (don.bell@aftonchemical.com); fmf@astmtmc.cmu.edu; Graziano, Ricki; Greene, Galen; greg.fett@dana.com; Gropp, Jerrold; Higuchi, Samuel; Inc William Sullivan (wtsullivan@comcast.net); Jack Zakarian (jaza@chevrontexaco.com); Jami Pole (jami.pole@aam.com); Joe.Guzikowski@dana.com; John Huron (HURO@chevrontexaco.com); Keith Purnell (kpurnell@sae.org); Kerry Hess (Kerry.hess@dana.com); Martin, Dan; NON-LZ JACKSON MATT; Mike Haire; Percy Kanga (percy.r.kanga@exxonmobil.com); Prengaman, Christopher; Rachel Agusti (rachel.agusti@us.army.mil); Rajakumar, Allison; Schenkenberger, Chris; Stephen Eliot (stephen.w.eliot@exxonmobil.com)
Subject: L-37 Panel meeting date October 9, 2008 & Proposal & D6121SI Units Proposal
Importance: High
Attachments: D6121toSIUnits.doc

Dear L-37 SP, Lyle:

After yesterdays L-37 Surveillance Panel teleconference call, many of you now know we were tasked to work on updating the D 6121 Standard to "Units Compliance with ASTM" through Lyle Bowman. The attached word document details information items to share with the panel and a proposal that I would like the panel to consider, discuss, and take action on during the next L-37 Surveillance Panel teleconference call on **Thursday, October 9 at 10:00 a.m EST. That call in number is 608-250-0194. The code is 324160.**

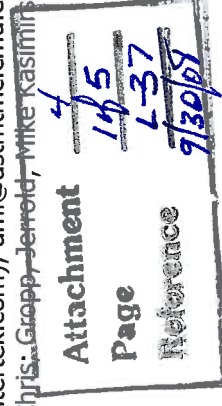
Please review the attachment, offer any comments, and come prepared to finish this action itemt at our October 9 teleconference meeting.

Thanks,

Don Bartlett

Office Phone: 440-347-2388 **Mobile:** 440-220-0843 **E-mail to:** dttb@lubrizol.com

From: Gropp, Jerrold
Sent: Wednesday, October 01, 2008 9:06 AM
To: Lyle Bowman
Cc: NON-LZ FRANKLIN JOE; John Zalar; Art Sanchez (asanchez@swri.org); Brian Koehler (bkoehler@swri.org); Cory Koglin (Cory.Koglin@aftonchemical.com); Dale Smith (Dale.Smith@intertek.com); dml@astmtmc.cmu.edu; Don Bell (Don.Bell@AftonChemical.com); Bartlett, Donald; Schenkenberger, Chris; ~~Gropp, Jerrold, Mike Kasimirsky~~
(mtk@astmtmc.cmu.edu)
Subject: RE: WK20838/D 6121/8-08
Importance: High



Lyle,

I would ask that each of the test procedures that you are updating/converting and which falls under the jurisdiction of Section D02.B0.03 be sent to the Chairman of each Surveillance Panel for review. I feel it is important that each of these groups review and approve your proposed changes to insure that these changes do not result in any unintended, adverse

10/01/2008

consequences. The specific tests and individuals that the updated/converted documents should be sent to are:

- ASTM D 7038 should be sent to Dale Smith
- ASTM D 6121 should be sent to Don Bartlett
- ASTM D 7452 should be sent to Cory Koglin
- ASTM D 5704 should be sent to Chris Schenkenberger
- ASTM D 5579 should be sent to Brian Koehler
- ASTM D 5662 should be sent to Don Bell

Dale, Don (Bartlett), Cory, Chris, Brian, and Don (Bell),

By copy of this memo to you, I would ask that you review the updated/converted test procedure with the members of your Surveillance Panel, and request their approval of the proposed changes.

Don (Lind) and Mike,

Barring any input to the contrary, I will assume that you will be working with each Surveillance Panel to incorporate whatever changes (if any) are required into the test report forms.

Jerry

From: Lyle Bowman [mailto:jbfoodie@comcast.net]
Sent: Tuesday, September 30, 2008 1:39 PM
To: Gropp, Jerrold
Cc: NON-LZ FRANKLIN JOE; John Zalar
Subject: FW: WK20838/D 6121/8-08

Jerry,

The answers to your questions follow:

1. I'm making all required conversions.
2. I'm also updating the drawings of test equipment.
3. I'm sending those converted test methods, where there may be some questions about the conversions, to ASTM for Subcommittee B Ballots. Other conversions, where I have been assured by Section Chairmen that they see no problems, I'm sending to ASTM for concurrent D02/Sub. B Ballots.
4. I'm doing nothing on the test report forms. Probably, those will be done by the TMC.

Lyle.

----- Forwarded Message

From: "Gropp, Jerrold" <Jerrold.Gropp@lubrizol.com>
Date: Tue, 30 Sep 2008 12:37:08 -0400

To: Lyle Bowman <jbfoodie@comcast.net>

Cc: NON-LZ FRANKLIN JOE <joe.franklin@intertek.com>, John Zalar <jlz@astmtmc.cmu.edu>, "Dale Smith (Dale.Smith@intertek.com)" <Dale.Smith@intertek.com>, "Cory Koglin (Cory.Koglin@aftonchemical.com)" <Cory.Koglin@aftonchemical.com>, "Brian Koehler (bkoehler@swri.org)" <bkoehler@swri.org>, "Don Bell (Don.Bell@AftonChemical.com)" <Don.Bell@AftonChemical.com>, "Bartlett, Donald" <Donald.Bartlett@lubrizol.com>, "Schenkenberger, Chris" <Chris.Schenkenberger@lubrizol.com>, "Art Sanchez (asanchez@swri.org)" <asanchez@swri.org>, "Gropp, Jerrold" <Jerrold.Gropp@lubrizol.com>

Conversation: WK20838/D 6121/8-08

Subject: RE: WK20838/D 6121/8-08

Lyle,



As you are aware, the L-37 Surveillance Panel has been discussing what, if any, affect the ASTM's desire to move to the use of SI units will have on the industry's ability to conduct the test procedure using existing test equipment, how test data will be reported to the ASTM Test Monitoring Center and test sponsors, etc.. A few of the questions that have been raised by the L-37 and other Surveillance Panels follow:

10/01/2008

- 1) Are you making all required conversions to all existing test procedures, or are you expecting the individual Surveillance Panels to do any of this work? I believe it is fair to state that the Surveillance Panels are anticipating that you will be making all of the required changes – I would appreciate hearing your comments/position on this.
- 2) Further to the above, many of the test procedures contain drawings of test equipment. The drawings typically show dimensions and tolerances for this equipment. Will you also be updating these drawings?
- 3) Are you planning on sending a complete converted/updated document to each Surveillance Panel for their review? This is somewhat of a leading question, in that I believe that this is each Surveillance Panel's expectation. What is your timing on this?
- 4) Are you planning to update the test report forms for each test procedure, or is this something that would have to be done by the Surveillance Panels and/or the Test Monitoring Center?

Jerry

From: Lyle Bowman [mailto:jbfoodie@comcast.net]
Sent: Tuesday, August 12, 2008 1:38 PM
To: Gropp, Jerrold
Cc: NON-LZ FRANKLIN JOE; John Zalar
Subject: WK20838/D 6121/8-08

Jerrold,

ASTM Board of Directors has issued a directive that requires addressing the measurement units in all standards. The emphasis is on the use of SI units wherever possible. As you are aware from Joe Franklin's email (7-28-08), I've been assigned the responsibility for making these revisions for standards that are the responsibility of Subcommittee B.

Prior to balloting, I'd appreciate your review of one of the standards in Section 3's responsibility (D 6121 revision attached). If you have any concerns about the proposed changes, please discuss with me. You'll note that it's proposed to ballot Sub. B and D02 concurrently. This is only done if there is confidence that there will be no negative votes or comments for technical changes from Subcommittee B members.

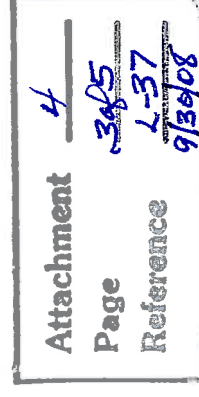
Anticipating that there may be concern about making the proposed changes in Table A9.1, there is an optional possibility; i.e., the 'Combined Standard'. This units system requires that there be both SI units and inch-pound units shown for each measurement value, with SI units shown first, followed by inch-pound units in brackets. Either units system can be considered standard for each measurement value, unless there is a value that only one units system is the standard for, and a suitable note then is added at that place in the text.

For D 6121, and Table A9.1, that note would read something like the following: "The SI units are the standard for the Pitting and Spalling measurements."

Lyle Bowman.

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http://www.lubrizol.com/disclaimer/De_un_clic_aqui_para_su_traduccion_al_espanol.htm
<http://www.lubrizol.com/disclaimer/Chinese.htm>
<http://www.lubrizol.com/disclaimer/Japanese.htm>



----- End of Forwarded Message

10/01/2008

ATTACHED TO OCT1 EMAIL

**Note to L-37 SP Summarizing D 6121 Proposal for Units Compliance with ASTM
October 1, 2008**

1) In blue below is the email directive from Joe Franklin on July 28, 2008(thank you Brian Koehler):

From: Joe Franklin Intertek <joe.franklin@intertek.com>
Date: Mon, 28 Jul 2008 14:31:04 -0600
To: Ben Weber <ben.weber@swri.org>, "DeBaun, Heather J" <Heather.DeBaun@Navistar.com>, <Richard.Denis@Lubrizol.com>, "Gropp, Jerrold" <Jerrold.Gropp@lubrizol.com>, <tselby@savantgroup.com>, <Mark.Devlin@aftonchemical.com>, Ed Callis <ecallis@spectrumcorporation.com>, "Wagster, David" <DWagste@citgo.com>
Cc: "Sutherland, Mark (msut)" <MSUT@chevron.com>, <Andrew.Ritchie@infineum.com>, <jlz@astmtmc.cmu.edu>, Lyle Bowman <jbfoodie@comcast.net>
Conversation: Units compliance with ASTM
Subject: Units compliance with ASTM

Dear Section Chairs,

This message is to alert you to an editorial project that is being initiated within Subcommittee B to update the units in standards under Subcommittee B's responsibility. There are standards needing their units updated cited by ASTM's staff in each one of your sections. This process is the result of the ASTM Headquarters issuing a directive primarily aimed at emphasizing the use of SI units in ASTM standards.

Lyle Bowman has been assigned to carry out this project and some 34 of our standards need their units updated.

Unless there is a strong case for using inch-pound units in a standard, only SI units will be used, with no other units shown in brackets for information purposes. If inch-pounds units are to be regarded as the standard units in a standard, then corresponding SI units will be shown in brackets following the inch-pounds units.

Some of the units currently used in many of our standards will need to be revised; e.g. mm squared/s for cSt, and g/MJ for g/kW-h. In the case of the cSt replacement, no change in numerical values are involved, but in the case of the g/kW-h replacement, there are also numerical values changed.

If you or your surveillance panels have any concerns about the units changes that are about to be made in your standards, please communicate those concerns to Lyle right away.

2) It is my understanding that the ASTM Performance style manual allows 4 options:

- Option 1 Use SI units only
- Option 2 They can be combined
- Option 3 inch-pounds followed by mathematical conversion
- Option 4 nothing

Attachment	4
Page	4 of 5
Reference	L-37 09/30/08

Attached to OJT Email

- 3) **Proposal** to the Panel for consideration and adoption:
- We request English units for all measurements as primary and SI for secondary (SI units are listed in brackets).
 - Section 1.3 of the standard already states "the values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard". That is good.
 - Add a note to table A9.1 stating "The SI units are the standard for the Pitting and Spalling measurements."
 - We ask that Lyle proceed with editorial changes per Mr. Gropp's memo of October 1 and provide the updated Standard to the chairman for panel review.
 - Note: As a final thought, dealing with past data, forms, equipment, and tools, maybe the best approach to the future is for the panel to consider the full move to SI units when we move to the updated L-37 test method which is under consideration?

Don Bartlett

Attachment	4
Page	5 of 5
Reference	L-37 9/30/08

Bartlett, Donald

From: Lyle Bowman [jbfoodie@comcast.net]
Sent: Wednesday, October 01, 2008 7:54 PM
To: Bartlett, Donald
Subject: Re your email announcement of an Oct. 9 L-37 Panel Meeting
Attachments: WK20838D 61218-08.doc

Don,

You suggested that a Note should be added to Table A9.1 explaining the units exception.

For your information, the ASTM editor has advised that units exceptions should be noted in the Scope section dealing with units. In the case of D 6121, that is Section 1.3. For D 6121, that means that an appropriate subsection would say:

"1.3.1 Exception - In Table A9.1, the values stated in SI units are to be regarded as standard."

I'm not sure if I've forwarded the proposed ballot to you or not. In any case, it is being copied to you today, with the above Scope subsection included.

Lyle.

Attachment	5
Page	14/3
Reference	4-37 9/30/08

D02 AND D02.B0 CONCURRENT BALLOT ITEM

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To: ASTM D02 and D02.B0 Members

From: Lyle Bowman, D02.B0.10 Facilitator

Subject: Revision of D 6121 (L-37)

WK No.: 20838

Rationale: Update the standard's units per the ASTM Units Project directive.

1.3 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.3.1 Exception – In Table A9.1, the values stated in SI units are to be regarded as standard.

6.2.4.3 *Axle Cooling*

- (2) Use a single control valve to control the cooling water supply. The control shall be a 1/2 in. (12.7 mm) two-way, C linear trim,See A6.3.2.2 for L-37 Canadian Version test.
- (3) Use only 3/8 or 1/2 in. (9.5 or 12.7 mm) line material to the spray nozzles.
- (4) Use a minimum supply water pressure of 25 psi (172 kPa) to the control valve.

Attachment	5
Page	2 of 3
Reference	L-37 9/30/08

TABLE A9.1 Gear Rating Guidelines

Use for Pitting/Spalling Distress Only

Corresponding CRC 21 Spalling

Level of Distress	Scale
None	
Trace Pitting—Pit size up to <u>9.5 mils</u> (0.24 mm) diameter	
Trace-Light Pitting	
Light Pitting—Pit size <u>19.7 mils</u> (0.50 mm) diameter	
Light-Medium Pitting	
Medium Pitting—Pit size <u>29.1 mils</u> (0.74 mm) diameter	
Medium-Heavy Pitting	
Heavy Pitting—Pit size <u>38.6 mils</u> (0.98) mm diameter	
Trace Spalling	<u>0.04 in.²</u> (1 mm ²)
Trace-Light Spalling	<u>0.16 in.²</u> (4 mm ²)
Light Spalling	<u>0.35 in.²</u> (9 mm ²)
Light-Medium Spalling	<u>0.63 in.²</u> (16 mm ²)
Medium Spalling	<u>0.98 in.²</u> (25 mm ²)
Medium-Heavy Spalling	<u>1.42 in.²</u> (36 mm ²)
Heavy Spalling	<u>1.93 in.²</u> (49 mm ²)

Attachment	<u>5</u>
Page	<u>343</u>
Reference	<u>d-37</u> <u>9/30/08</u>