



COMMITTEE D02 on PETROLEUM PRODUCTS, LIQUID FUELS, AND LUBRICANTS

CHAIRMAN: Scott Fenwick, National Biodiesel Board, PO Box 104848, Jefferson City, MO 65110-4898, United States (800) 841-5849, Fax: (537) 635-7913, e-mail: sfenwick@biodiesel.org

FIRST VICE CHAIRMAN: Gregory C Miiller, Tannas Co, 4800 James Savage Rd, Midland, MI 48642, United States (989) 496-2309, Fax: (989) 496-3438, e-mail: gmiiller@savantgroup.com

SECOND VICE CHAIRMAN: James J Simnick, Bp Global Fuels Technology, 150 Warrenville Rd, BP Technology Center Mail Stop 603-2W, Naperville, IL 60563, United States (331) 702-4071, Fax: (630) 420-4831, e-mail: simnicj@bp.com

MEMBERSHIP SECRETARY: Ian P Mylrea, Stanhope-Seta, 70 Bramley Drive, Hampshire, RG27 8ZF, United Kingdom (193) 2 5-4589, e-mail: im@stanhope-seta.co.uk

STAFF MANAGER: Alyson Fick, (610) 832-9710, e-mail: afick@astm.org

SEQUENCE IX SURVELLANCE PANEL

Date: 9 Feb 24

ATTENDANCE

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|---------------------|--|
| SWRI | Christine Eickstead, Khaled Rais, Pat Lang |
| INTERTEK | Jason Soto, Al Lopez |
| LUBRIZOL | George Szappanos, Joe Gleason |
| AFTON | Jason Lekavich |
| INFINEUM | Todd Dvorak, Chris Tonstad |
| TMC | Rich Grundza |
| ORONITE | Robert Stockwell |
| SHELL | Jeff Hsu |
| HALTERMAN SOLUTIONS | Indresh Mathur, Ed Hennessy |
| HALTERMAN CARLESS | Izabel Gabrel |
| GM | Brad Cosgrove |
| FORD | Mike Deegan, Rob Zdrodowski |
| OHT | Jason Bowden |
| IMTS | Dave Passmore, Sid Clark |
| CQA | Mike Kunselman |

ATTACHMENTS:

- A: Meeting Agenda
- B: Email from George re. report form corrections

MEETING:

1. Attendance. See table above.

Motion to approve minutes from last SP meeting (17 Aug 23), Khaled. Rich seconds. Approval unanimous.

Action items from last set of minutes:

IMTS pistons – on agenda as its own item

RO224-1 results – will be covered by Rich

Fuel Supplier Report:

Halterman Solutions: Ed Hennesey

Fuel supply is plentiful, consuming at anticipated rate

No anticipated batch change for next 3-5 months

Rich – TMC update

220 reblend is available at some labs, should be available everywhere soon.

Pat – slide with lab individual CUSUMS – two going up and two going down

Rich – not sure what's causing mild trend. Everyone using same clutch? Same version of Indicom (Khaled – no, our lab uses two different versions). (Indicom is an AVL transducer amplifier.)

Rich – are we breaking engines in the same? Khaled – discussed previously – believe A and G are doing the same.

George – following standard procedure, experimented with extended breakings but not typical practice.

Pat – future – going to be all going to non-BB pistons, so introduces another variable....

Rich – Transducers? Getting less sensitive? Going over 300 hr limit? Khaled – what we're looking for [LSPI event] is so huge compared with normal operation, shouldn't matter.

Pat – to Todd – if you guys were asked to look at this data, what would you say? Todd – looking like the VH, two labs going one way, others going the other. But where to look?

ACTION:

Todd – Can Rich generate chart by RO? Rich – yes (action)

Khaled – what happened with the VH? Ben Maddock (leads TF looking into that) – might need build workshop?

Rich – head gaskets?

George – Math from procedure – different methods for dealing with that. Years ago, did a round robin – at the time, everyone agreed within reason. As we bring on board replacement DAC systems, wonder if there is nuance to that that needs to be captured with another round robin. Ben – good idea.

ACTION:

Pat – Khaled volunteers to coordinate an initial call with labs to discuss different things to look at. Might morph into build workshop, etc., but let's start there.

Hardware – Jason presents.

ACTION: – Rich to add new spark plug number to procedure

The procedure does not specify that each new engine use a new head, but labs are doing this anyway.

IMTS pistons – Sid – update: independent labs are both in possession of two sets each, just need to determine how they are going to be evaluated and when we are going to try and do that?

Khaled – we have them, are measuring now. Jason – same.

Sid – will be in town next week, will discuss with both labs.

Jason – since forged, assume will have some differences from cast pistons. What are we targeting? Sid – we targeted AC2 (?) Once the engine is fired up and at temp, should be no difference.

Jason – since no button, what is the thickness of that coating? **ACTION:** Sid – will have to ask.

ACTION: Two labs will report back with dimensions, will share with Sid next week.

Pat – Bit down the road – if all dimensions look good, assume we will follow same protocol to bring pistons in (two references).

Down the road, all labs will need difference pistons. Sid – have not given the green light to make more pistons, need these proved out first.

Machined pistons – All labs have at least one set. If need further sets, contact Khaled and we can work out the process. Do the labs anticipate buying pistons (from us) in the near future? No answer... well, there is availability.

New business:

Test report form corrections (email attached).

Oil sampling – After 1 hr break-in sample, will add language to IX procedure and reference information letter.

Ben – Maybe call if “initial” instead of “new oil”, can also add note to data dictionary in “description” field

Motion: To include instructions to take an oil sample in IX procedure after the 1-hr LSPI break-in and do the standard aged oil analyses. Sample will be identified as “initial”.

Second – Deegan

Disapproves: 0, waives: 0, passes unanimously

Next call – Maybe a month from now, no urgent need for sooner one.