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Committee D02 on PETROLEUM PRODUCTS AND LUBRICANTS

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Minutes of ASTM ROBO Surveillance Panel

Issued September 16, 2015 for Teleconference August 19, 2015

Call to order: The meeting, via teleconference, was called to order by the chair, Alan Flamberg, shortly after 10 AM, Wednesday, August 19, 2015. 20 members and guests were in attendance. The meeting was held via teleconference and WebEx using with the attached Powerpoint.

ASTM Antitrust and Recording Policy: Statement was presented and reviewed.

Review of Membership:

Revised membership. Robert Stockwell from Chevron Oronite joins the group.

*in attendance

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| Ace Glass | Jim Abbott , John Ross |
| Afton | Shelia Thompson*, Jeff Yang* |
| ASTM TMC | Tom Schofield* |
| BASF | Mary Dery, Bridgett Rakestraw |
| BP | Betsy Kaplan |
| Chevron Oronite | Kaustav Sinha, Robert Stockwell* |
| ExxonMobil | Dennis Gaal* |
| Infineum | Andy Richie, Sapna Eticala |
| Intertek | Joe Franklin, Matt Schlaff* |
| Kuwait Petroleum | Leen Poot |
| Lubrizol | Grant Hutchinson*, Aimee Shinheart*, Rick Hartman |
| PetroChina | Li Shaohui , Sun Ruihua, Peng Wang, Xiaogang Li, Xu Li |

| | |
|--------------------------|---|
| Evonik Oil Additives | Alan Flamberg*, Justin Mills*, Bruce Zweitzig*, Joan Souchik* |
| RT Vanderbilt | Al Filho*, Ron Hiza, Simon Tung |
| SwRI | Becky Grinfield*, Joe De La Cruz, Mike Birke*, Young-Li McFarland |
| Ashland Inc. / Valvoline | Amol Savant*, Kevin Figgatt*, Steve Lazzara* |

Also in attendance from Evonik:

Bob Cybert*

David Gray*

Approval of July minutes: The minutes were approved as written. They will be marked Approved, and posted on the TMC web site.

Oils 83, 84, 85: Oils from the original ROBO round robin. Oil 83 gave highly variable results. Oil 84 gave very mild results. There is not that much left of oils 84 and 85. The chair recommended getting rid of these old oils. The group agreed. Tom will do so and remove them from inventory.

Oil 435: The original high reference oil. A small amount remains, but it is old and the group consensus is not to use it any more for referencing. Some labs would like to keep some on hand for internal use. Current accounting of coded samples: Ashland (2), Intertek (2), Southwest (2), Afton (2), Lubrizol (1), RT Vanderbilt (7), TMC (7).

Actions: Tom

Get approval and send remaining samples to labs: Evonik Horsham, PA (2), Ashland - Amol (1), Intertek (1), Southwest (1), Lubrizol (2).

Then, decode the samples in all of the labs.

Then, remove 435 from the monitoring system.

Oil 435-2: Coded old samples are in the labs. These can be decoded now and used as the lab see fit. New samples can be supplied if we choose to add this blend.

AOAP (Auto Oil Advisory Panel): An action from our July meeting: Alan to make contact with the AOAP (Auto Oil Advisory Panel) chair to express our willingness to continue maintaining the ROBO test through GF-6 and to ask if any other actions by our group are needed.

Contact was made (indirectly), and the feed-back was an appreciation of our work and encouragement to keep working on monitoring and improving the method. We offered to make a presentation to the AOAP on our work and received a recommendation to wait until after the precision matrix testing for the new Sequence IIIH is complete.

Ace Glass: Action from July meeting - Alan and Justin schedule a visit to Ace Glass. Contact has been made and a date for the meeting is being worked on. The primary objective is to reconfirm that the reactor design is locked down. Panel members were urged to send additional questions.

Revision to D7528 (ROBO)

A draft revision was distributed to the group before the meeting.

Requested wording from the document:

TMC_Services_Intro+Report+Annexes_March_9_2015

was added with some editing to make the use of TMC services mandatory for ROBO. The report section from the TMC document was not added to this revision. Much wording throughout the Test Method was changed to reflect the change to the mandatory use of TMC services. This wording was drafted earlier by Tom Schofield.

Table 1 with guideline oils was removed as these oils are not all currently available. The current oils are maintained by the TMC and the user is directed there.

In section 6.12 the reference to a particular part number and a sole source for the Vacuum Control Valve was removed as it had been reported that the part number is no longer available. The supplier offers a substitute part that looks different and may or may not be a suitable replacement. A part from another supplier has been found to work in one of the labs: Swagelok Part number: SS-1RS4

http://www.swagelok.com/search/find_products_home.aspx?part=SS-1RS4&item=

Actions: All are asked to critically review the draft revision. Send comments, corrections and suggestions to Alan. Be prepared to attend our next teleconference meeting, discuss the revision and prepare it for balloting.

Severity/Bias

The current data was reviewed.

The preferred approach to improve precision and reduce or eliminate bias is by improving the operating equipment and procedures. This has proven difficult. The group agreed that a second workshop of test practitioners could help. SouthWest (Mike) and Intertek (Matt) agreed to host a workshop in San Antonio. The week of October 12, 2015 looks to be good.

Action: Alan to work with Mike and Matt to set the dates. Probably 1.5 – 2 days, mid week.

We also talked about severity adjustment factors. Tom is working on a similar proposal for the Noack D5800 methods. We will continue the discussion at our next meeting. There is concern about adding severity adjustments if the precision of the test is not adequate.

Next meeting

Wednesday, September 23, 2015. By Teleconference and Webex. 10:00AM – 12 Noon EDT.

Topics for discussion:

Method revision – prepare for ballot

Workshop planning

Severity adjustment proposal