# Sequence III Surveillance Panel WebEx Meeting

November 03, 2016 14:00-15:30 EDT

# <u>Agenda</u>

# 1.0) Attendance

1.1) The meeting attendance is shown in Attachment 1.

# 2.0) Approval of minutes

2.1) October 19, 2016 posted, comments received and minutes corrected. The corrected minutes were approved without objection (Altman, Stockwell).

# 3.0) Action Item Review

3.1) <u>10/19 2016 Call</u>; **Jason Bowden** will work with SwRI and the hardware vendor on the chamfer issue. SwRI has sent the measurement results to the vendor. The vendor is trying to determine what edge breaks will be needed. Current pistons cannot be reworked if different edge breaks are needed, a new batch will be required with a 4-6 week lead time to creat a prototype batch and 4-5 months to create an entirely new batch. Discussions took place about what pistons to evaluate. Labs indicated pistons are kept for a year so pistons from earlier tests should be available for analysis. **Done.** 

3.2) <u>05/26/2016 Meeting & 10/19/2016 Call</u>; **Todd Dvorak** to review Sequence IIIH data for honing and cylinder size parameters that were temporarily suspended at 03/29/2016 meeting. Todd has not completed this item, it will be reviewed during the 11/15/2016 meeting. **Open Item.** 

3.3) <u>10/19/2016 Call</u>: **SwRI & IAR** will compare recently run pistons to examine the chamfers. These measurements were completed and circulated. **Done.** 

3.4) <u>10/19/2016 Call</u>; **Jeff Betz** will ask Mahle about tooling ages/changes during the production run. The same tooling was used the entire batch. The tooling is owned by OHT and it was not known whether the same tooling was used for both batches. **Action Item: Bowden will ask if several machines are used during a batch production or if one machine is used.** 

3.5) <u>10/19/2016 Call</u>; **David Glaenzer** will survey the labs about J-Tec calibration techniques and also investigate potentially better blowby measures. This item

was not completed in time for the call, should be addressed by the 11/15/2016 meeting. **Open.** 

### 4.0) Old Business

4.1) No old business was taken up during the course of the teleconference.

### 5.0) New Business

5.1) Sequence IIIH Batch Code 3 pistons. Receive report from CDP and Test Sponsor. OHT was asked life of the current batch and they indicated there is still considerable material left. Considerable discussions to place regarding severity and blowby and in general it was agreed that the blowby with these pistons was higher than the previous batch, with generally higher PVIS results and lower WPD.

5.2) Other reports relative to Batch Code 3 pistons. Again considerable discussion took place with regards to possible solutions. Potential LTMS changes and resetting of control charts for new batches were offered up. Also discussed was setting blowby at the lab, rather than pre gapped rings. Experience in the IIIG indicated that blowby control was much better once pre-gapped rings were used with consistent parts. Discussions centered around choosing pistons to have evaluated to provide chamfer and other criteria. Jo Martinez distributed some plots via email which showed the PVIS, WPD and blowby by lab, batch and stand. After review of these plots (attachment 2) and considerably more discussion, an action item was assigned to Dave Glaenzer and Rich Grundza to review severity and blowby data to try and pick the best and worst pistons to be evaluated for determining appropriate specification. Action Item: Grundza and Glaenzer will select BC2 pistons from labs with mild and severe blowby flow rates as well as BC3 pistons with severe blowby rates. Labs will clean and send to OHT for vendor measurements.

# 6.0) Review Action Items Assigned

6.1) **Todd Dvorak** to review Sequence IIIH data for honing and cylinder size parameters that were temporarily suspended at 03/29/2016 meeting. Todd has not completed this item, it will be reviewed during the 11/15/2016 meeting.

6.2) **Jason Bowden** will ask if several machines are used during a batch production of pistons or if one machine is used.

6.3) **David Glaenzer** will survey the labs about J-Tec calibration techniques and also investigate potentially better blowby measures. Will be addressed at the 11/15/2016 meeting.

6.4) **Grundza and Glaenzer** will select BC2 pistons from labs with mild and severe blowby flow rates as well as BC3 pistons with severe blowby rates. Labs will clean and send to OHT for vendor measurements.

### 7.0) Review Scope and Objectives

7.1) Scope and Objectives will be reviewed on 11/15/2016 at Southwest Research Institute in San Antonio.

# 8.0) Next Meeting

8.1) Face to face meeting scheduled for 09:00–17:00 on 11/15/2016 at Southwest Research Institute, Building 209, Room 103 in San Antonio, TX.

# 9.0) Meeting Adjourned

3:25 PM

# ASTM Sequence III Surveillance Panel (22 Voting members)

date:///03/16

Name/Address	Phone/Fax/Email	Signature		
Ed Altman	ed.altman@aftonchemical.com	Voting Member	Present	
Jeff Betz	jeff.betz@fcagroup.com	Voting Member	Present_V	
Jason Bowden	jhbowden@ohtech.com	Voting Member	Present	
Timothy L. Caudill	tlcaudill@ashland.com	Voting Member	Present_	
Richard Grundza	reg@astmtmc.cmu.edu	Voting Member	Present	
Jeff Hsu, PE	j.hsu@shell.com KAMN H,	Voting Member	Present_	
Teri Kowalski	teri.kowalski@tema.toyota.com	Voting Member	Present	
Dan Lanctot	dlanctot@tei-net.com	Voting Member	Present	
Patrick Lang	plang@swri.org ANKIN	Voting Member	Present	
Mark Overaker	mhoveraker@jhaltermann.com	Voting Member	Present	
Michael Raney	michael.p.raney@gm.com	Voting Member	Present	
Andrew Ritchie	andrew.ritchie@infineum.com	Voting Member	Present	
Ron Romano	rromano@ford.com	Voting Member	Present	
Cliff Salvesen	clifford.r.salvesen@exxonmobil.com	Voting Member	Present	
Addison Schweitzer	addison.schweitzer@intertek.com	Voting Member	Present	
Greg Shank	greg.shank@volvo.com	Voting Member	Present	
Kaustav Sinha, Ph.D.	LFNQ@chevron.com Robarl S	Voting Member	Present	
Thomas Smith	trsmith@ashland.com	Voting Member	Present	
Scott Stap	scott.stap@tgidirect.com	Voting Member	Present	
George Szappanos	george.szappanos@lubrizol.com	Voting Member	Present L	
Haiying Tang	HT146@chrysler.com	Voting Member	Present	
David Tsui	david.tsui@bp.com	Voting Member	Present	

# **Rich Grundza**

From:	Martinez, Jo G. (jogm) <jomartinez@chevron.com></jomartinez@chevron.com>
Sent:	Thursday, November 03, 2016 2:45 PM
То:	Glaenzer, Dave; Adam Bowden; Addison Schweitzer; Allison Rajakumar; Amol Savant; Andy Ritchie; Angela Willis; Ankit Chaudhry;
	Arthur Andrews; Ben Weber (BWeber1@satx.rr.com); Bill Buscher III; Campbell, Bob; Bob Olree; Bob Salgueiro; Charlie Leverett;
	Chris Castanien (Chris.Castanien@nesteoil.com); Chris Taylor; Porter, Christian; Cliff Salvesen; Dan Lanctot; Dave Passmore; Don
	Smolenski; Doyle Boese; Dwight Bowden; Altman, Ed; Elisa Santos; Frank Farber; George Szappanos; Gordon Farnsworth; Greg
	Shank; Haiying Tang (ht146@chrysler.com); Hirano Satoshi; James Matasic; Jason Bowden; Jason Holmes; Jeff Betz; Jeff Clark; Jeff
	Hsu; Jerry Brys; Jessica Buchanan; Jim Linden; Rutherford, Jim (JARU); Franklin, Joe (Intertek); Karin Haumann; Sinha, Kaustav;
	Mark Overaker; Chadwick, Martin (Intertek); Martin Heimrich; Matt Bowden; Lochte, Michael D. (mlochte) (SwRI); Mike McMillan; Pat
	Lang; Phil Davies; Phil Rabbat; Rich Grundza; Robert Bacchi; Stockwell, Robert T; Rolfe Hartley; Ford, Romano, Ron; Scott Lindholm;
	Scott Rajala; Scott Stap; sid clark (sidney.clark@swri.org); Sylelle P. Elshenawy; Teri Kowalski; Terry Bates; Thom Smith; Tim Caudill;
	Dvorak, Todd; Travis Kostan; Walt Lerche; SwRI, Lang, Patrick; Dingwell, Lisa; Dvorak, Todd; Kevin OMalley
Cc:	Campbell, Bob
Subject:	RE: Sequence III Agenda for 11/03/2016

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Regards,

Jo

From: Glaenzer, Dave [mailto:Dave.Glaenzer@AftonChemical.com]

Sent: Monday, October 31, 2016 10:56 AM

**To:** Adam Bowden; Addison Schweitzer; Allison Rajakumar; Amol Savant; Andy Ritchie; Angela Willis; Ankit Chaudhry; Arthur Andrews; Ben Weber (<u>BWeber1@satx.rr.com</u>); Bill Buscher III; Campbell, Bob; Bob Olree; Bob Salgueiro; Charlie Leverett; Chris Castanien (<u>Chris.Castanien@nesteoil.com</u>); Chris Taylor; Porter, Christian; Cliff Salvesen; Dan Lanctot; Dave Passmore; Glaenzer, Dave; Don Smolenski; Doyle Boese; Dwight Bowden; Altman, Ed; Elisa Santos; Frank Farber; George Szappanos; Gordon Farnsworth; Greg Shank; Haiying Tang (<u>ht146@chrysler.com</u>); Hirano Satoshi; James Matasic; Jason Bowden; Jason Holmes; Jeff Betz; Jeff Clark; Jeff Hsu; Jerry Brys; Jessica Buchanan; Jim Linden; Rutherford, Jim (JARU); Martinez, Jo G. (jogm); Franklin, Joe (Intertek); Karin Haumann; Sinha, Kaustav; Mark Overaker; Chadwick, Martin (Intertek); Martin Heimrich; Matt Bowden; Lochte, Michael D. (mlochte) (SwRI); Mike McMillan; Pat Lang; Phil Davies; Phil Rabbat; Richard Grundza; Robert Bacchi; Stockwell, Robert T; Rolfe Hartley; Ford, Romano, Ron; Scott Lindholm; Scott Rajala; Scott Stap; sid clark (<u>sidney.clark@swri.org</u>); Sylelle P. Elshenawy; Teri Kowalski; Terry Bates; Thom Smith; Tim Caudill; Dvorak, Todd; Travis Kostan; Walt Lerche; Glaenzer, Dave; SwRI, Lang, Patrick; Dingwell, Lisa; Dvorak, Todd; Kevin OMalley **Cc:** Campbell, Bob

Subject: [\*\*EXTERNAL\*\*] Sequence III Agenda for 11/03/2016

Attached is a tentative agenda for our Thursday, November 3, 2016 WebEx Conference call at 14:00-15:30 Eastern. You should have received notice of the call and call-in information in a message sent 10/20/2016 @ 05:42 Eastern.

If you have any information you wish to disseminate to the SP prior to the call, you may send it to this distribution list or to me for distribution.

Action Items from our 10/19/2016 are included in the agenda.

There is a unique opportunity for someone to secure their name in the annuals of SP history. Our secretary, Jeff Clark will be unable to be on the call and a replacement secretary opportunity exists.

Do not hesitate to send me a note offering your services for this call. First come, first served.

David L. Glaenzer Sequence III Surveillance Panel Chairman Afton Chemical Corporation Phone: (804) 788-5214 Email: dave.glaenzer@aftonchemical.com