

Seq. IIIH Piston Hardware Task Force

WebEx Teleconference

Wednesday, May 24, 2017

10:00 – 12:00 EDT

Agenda (Attachment #1)

1.) Attendance.

Addison Schweitzer, Charlie Leverette, Pat Lang, Chaudhry Ankit, Amol Savant, George Szappanos, Jeff Betz, Bob Campbell, Rich Grundza, Matt Bowden, Robert Stockwell, Jason Bowden, Todd Dvorak, Jerry Brys, Doyle Boese, Sid Clark

2.) Open Action Item Review

Action Item #1: Confirm how the JTEC data is being collected. Ankit will survey the labs to have them provide the raw data that is being collected along with each labs practices for measuring barometric pressure, JTEC flow, temp, etc.)-Ankit Chaudhry - ONGOING

Action Item #2: Todd Dvorak will review honing analysis he prepared for the November 2016 Panel meeting comparing the correlation pre and post matrix by lab vs. blowby and output results – Todd Dvorak-ONGOING

Action Item #3: Amol will survey the labs to determine how they are insulating the exhaust downpipes and how the exhaust systems are routed- Amol Savant-ONGOING

Action Item #4: Labs to provide results to the Task Force on prior 436 results in stand being used in Ring Gap DOE. Valvoline to report 438 results. – All Labs.-COMPLETE

Action Item # 5: Labs to provide actual ring gaps to TMC for tests run in Task Force Ring Gap DOE and prior reference oil 436/438 runs on the stands used in in the DOE. Statisticians will review once chart is complete. ONGOING

Action Item # 6: Jason Bowden to summarize Ring Gap DOE and prior Ref Oil results on each stand. – COMPLETED 3/2/17

Action Item #7: The Statisticians Group with continue analysis of the data utilizing the ring gap data and the prior reference oil results by individual stand. COMPLETE (Combined with action item #5)

Action Item #8: Southwest to run BC4 piston screener test.- COMPLETE

Action Item #9: OHT to donate one engine set of BC4 pistons to Southwest. – COMPLETE

3.) Discussion on next steps to take to return Seq. IIIH test to matrix severity levels

There were significant discussions with regards to the next steps and different options that the task force could take to try and return the Seq. IIIH test to matrix severity levels. The group agreed on several different options. Some of the options include increasing ring gaps, extended engine test hours to 100 hours, increased speed or load and reviewing the honing and blowby evacuation changes. There were several action items that were generated from these discussions.

5/24/17 Action Item #1: DOE Engine Hour Increase from 90 – 100 hrs. Ed Altman and Addison Schweitzer will develop a procedure for labs to conduct final ratings after 90 hours and then rebuild the engine to run an additional 10 hours and conduct an additional round of ratings. The labs will conduct an oil sample at 90 hours.

5/24/17 Action Item #2: Southwest to conduct screener tests using increased load and speed. The engine will use BC4 hardware, stabilize conditions before adjusting either load or speed. All operational data will be captured for review by task force.

5/24/17 Action Item #3: Southwest and Intertek will review possible screener tests with increased ring gaps and report to task force.

5/24/17 Action Item #4: Southwest to conduct study on blowby evacuation system to determine if returning the system to the original configuration during the matrix has an effect on severity.

The task force spent time reviewing the initial blowby comparing BC2 matrix, PM matrix and BC4 (**Attachment #2**). Initial blowby for BC4 appears similar to BC2 PM Matrix, but the blowby drops off faster.

- 4.) **Old Business**-None
- 5.) **New Business**-None
- 6.) **Motion and Action Item Review (Attachment #3)**
- 7.) **Next Meeting – June 14th, 2017**
- 8.) **Meeting adjourn**

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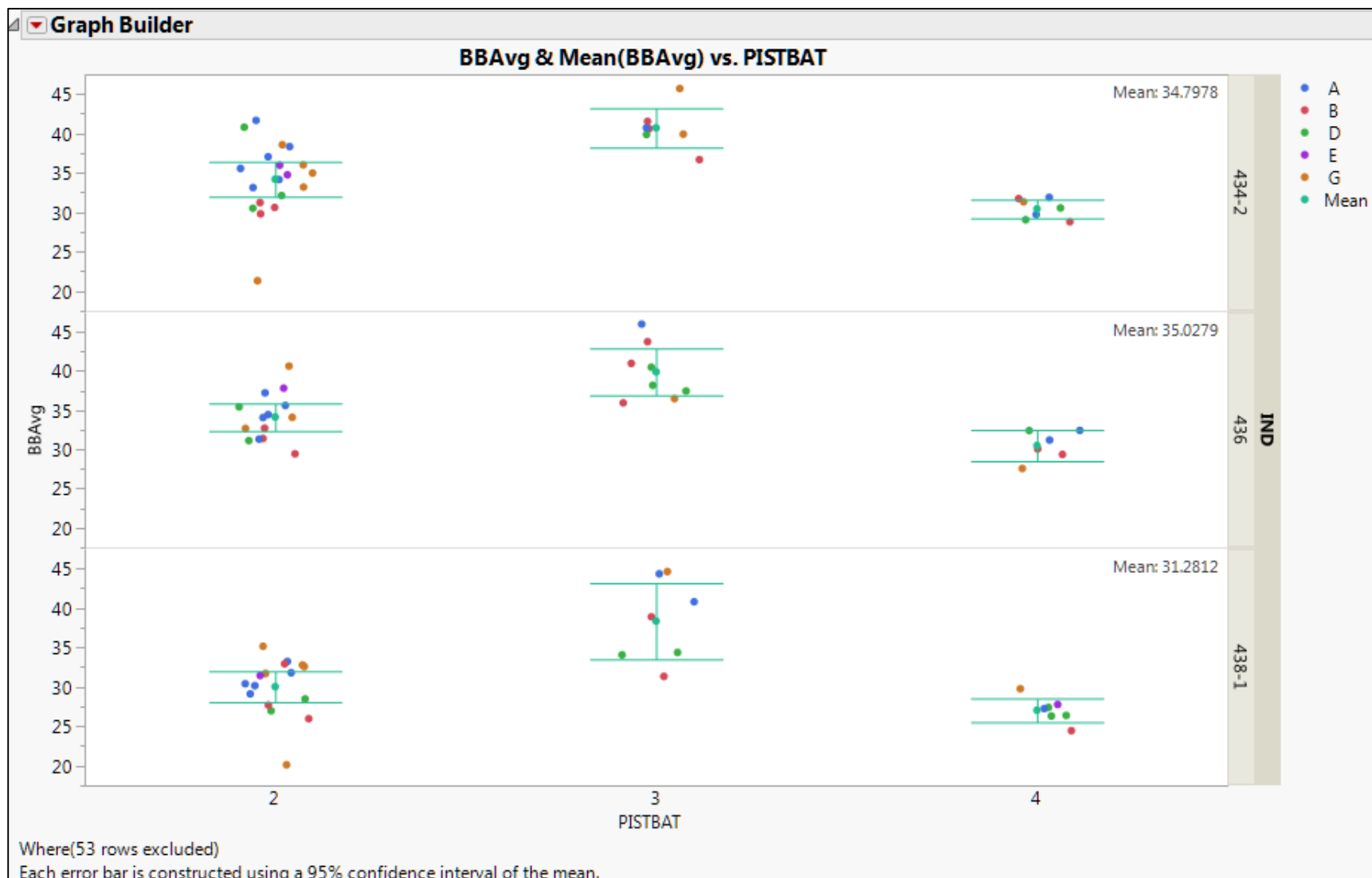
4.) Old Business

5.) New Business

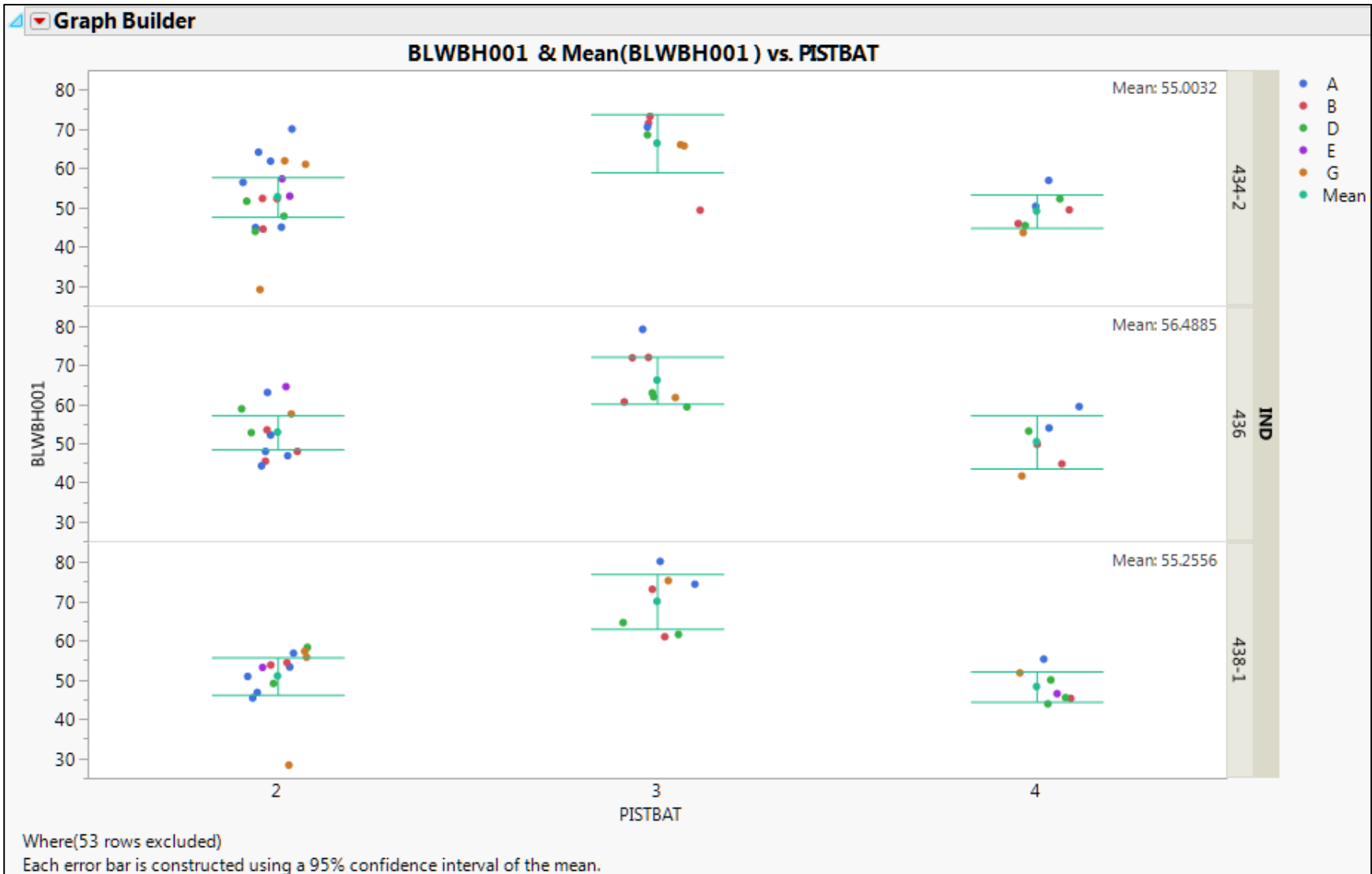
6.) Motion and Action Item Review

7.) Meeting adjourn

Blowby Avg vs. Ring Batch and Reference Oil



Blowby Hr1 vs. Ring Batch and Reference Oil



Seq. IIIH Severity Task Force

Motion and Action Items

May 24, 2017

Motions:

None

Action Items:

Prior Open Action Items:

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Current Open Action Items:

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