

Rich Grundza

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Sent: Wednesday, February 15, 2017 12:47 PM
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Subject: Sequence IVB Final Precision Matrix Lab Inspection

Included below is a summary of our final inspection of the Sequence IVB precision matrix laboratories:

Date of Inspections:

- Tuesday, 2/14/17

Laboratories Inspected:

- Southwest Research Institute (SwRI)
- Intertek Automotive Research (IAR)

Stands Inspected:

- SwRI Stand 20 (S-20)
- SwRI Stand 18 (S-18)
- IAR Stand 165 (I-165)
- IAR Stand 102 (I-102)

Inspection Participants:

- Khaled Rais – SwRI Test Engineer
- Chris Peyton – SwRI Engineering Aide
- Chet Collins – SwRI Engineering Aide
- Bill Buscher – IAR Test Engineer
- Carlton Coker – IAR Engineering Aide

Findings:

- S-20:
 - Instrumentation calibration completed.

- Precision matrix test engine installed, break-in and aging completed and ready for matrix testing.
- Knock sensor needs to be removed from engine block, insulated and wire tied to harness.
- Note, this is 1 of 2 original test development stands, that were the prototype for the Golden Stand.
- Inspected all original Golden Stand systems for correct standardized configuration and components and no infractions found. All infractions observed in the x/x/xx lab inspection have been resolved and updated to the current standardized configuration.
- Inspected all add-on Golden Stand systems (i.e. engine coolant flow, rocker cover coolant flow, blowby temperature control, etc.) and no infractions found.
- Once the knock sensor is relocated, this stand is acceptable and ready to start precision matrix testing.
- S-18:
 - Precision matrix test engine installed, break-in and aging completed and ready for matrix testing.
 - Instrumentation calibration to start.
 - Knock sensor needs to be removed from engine block, insulated and wire tied to harness.
 - Inspected all original Golden Stand systems for correct standardized configuration and components and no infractions found.
 - Inspected all add-on Golden Stand systems (i.e. engine coolant flow, rocker cover coolant flow, blowby temperature control, etc.) and no infractions found.
 - Once the knock sensor is relocated and instrumentation calibration is completed, this stand is acceptable and ready to start precision matrix testing.
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- I-165:
 - Precision matrix test engine installed, break-in and aging completed and ready for matrix testing.
 - Instrumentation calibration currently in process.
 - Inspected all original Golden Stand systems for correct standardized configuration and components and no infractions found.
 - Inspected all add-on Golden Stand systems (i.e. engine coolant flow, rocker cover coolant flow, blowby temperature control, etc.) and no infractions found.
 - Once the and instrumentation calibration is completed, this stand is acceptable and ready to start precision matrix testing.
- I-102:
 - Precision matrix test engine installed, break-in and aging completed and ready for matrix testing.
 - Instrumentation calibration currently in process.
 - Inspected all original Golden Stand systems for correct standardized configuration and components and no infractions found.
 - Inspected all add-on Golden Stand systems (i.e. engine coolant flow, rocker cover coolant flow, blowby temperature control, etc.) and no infractions found.
 - Once the and instrumentation calibration is completed, this stand is acceptable and ready to start precision matrix testing.

Let me know if there are any questions concerning these inspections.

Regards,

William A. Buscher III

Chairman, Sequence IV Surveillance Panel

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