



Date: 05/21/2024

Attn: Mr. Ryan Enders
NTSB
490 L'Enfant Plaza
Washington, DC 20594

Subject: Testing of Woodward Governor

Dear Mr. Enders,

Quality Aircraft Accessories completed a test as requested by you on May 21, 2024. The results of that test are as follows:

The article in question is a Woodward Governor. Part number A210680, serial number 1451224.

The governor was received as normal, and a work order was created by our receiving department. The article was then given to our Chief Inspector, [REDACTED] to put in the quarantine cage until the time of testing.

There were no physical anomalies noted prior to testing. The unit was flushed prior to testing to ensure mitigation of contaminants being induced in our test equipment.

The unit was mounted to the test bench and ran to reach proper operating temperature. The test was performed with reference to the Woodward manual 33201, Revision 1-2007. The relief valve pressure should reach 320 psi +/- 20 psi. The unit tested at 320 psi. The max RPM per the manual is 2625 +/- 10 RPM. The unit reached 2637 RPM. The minimum RPM per the manual is 1100 RPM and the unit reached the 1100 RPM minimum cycle. The control arm position per the manual should be 61° +/- 2°. The unit control arm was positioned at 62°. The quarts per minute per the manual should be 5.0 qt/min @ 1750 RPM and the unit tested at 5.81 qt/min @ 1750 RPM. A second quarts per minute test was performed. Per the manual it should be 8.8 qt/min @ 2700

RPM. The unit tested at 9.90 qt/min @ 2700 RPM. The unit exceeded the requirements.

Overall, the unit tested and passed all requirements per the Original Equipment Manufactures manual requirements.

I have included a copy of the technician's report to go along with this letter.

Please let me know if you have any questions or concerns.

Sincerely,



Joseph R. Ellis
Quality Manager
Accountable Manager
Quality Aircraft Accessories



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FAA Repair Station # QYIR334Y
EASA 145.5982/69964

sales@qaa.com

Hours: 7:00 am – 5:30 pm, CST

Tear Down Report

Customer: N.T.S.B.
490 L'ENFANT PLAZA, SW
WASHINGTON, DC 20594

Date: 05-21-2024

Attention: _____

Special Instructions from Customer: Unit received as removed from aircraft. Customer requested bench test & evaluation.

Test Results (if performed) prior to tear down: No pre test or tear down performed.

Obvious problems noted during tear down: The unit was not torn down for evaluation. The unit was flushed with solvent prior to testing to remove any oil residue inside the unit to keep from possibly contaminating the test bench.

Reassembly procedure: N/A

Test results following repair or overhaul: The unit was mounted to the test bench and run to reach operational temperature. The following tests were performed in accordance to the OEM manual Woodward 33201 Rev 1-2007. The relief valve pressure should reach 320 +/- 20 and the unit tested at 320. The max RPM should read 2625 +/- 10 and the unit reached 2637. The minimum RPM should read 1100 and the unit reached the minimum cycle of 1100. The control arm position should read 61° +/- 2° and the units control arm was positioned at 62°. The quarts per min should read 5.0 qt/min @ 1750 RPM and the unit was at 5.81 qt/min @ 1750 RPM. A second quarts per min test was performed 8.8 qty/min @ 2700 RPM. The unit read at 9.90 qt/min @ 2700 RPM. The unit exceed the qt/min requirements. Their were no issues found with the unit.

P/N: A210680

S/N: 1451224

Customer P.O. N59MK

C.O. [REDACTED]

MO #: [REDACTED]

Tech: [REDACTED]