



NTSB MEMORANDUM OF RECORD

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Summary of Landing Gear System Examination at Chattanooga Aero Services
Date of Examination: August 13, 2019
Overseen by Neal R. Thorne, Aviation Safety Inspector, FAA
Accident Number: ERA19LA239

The following is a summary of the examination overseen by the above-named individual:

- Inspector Thorne reported that the hydraulic reservoir did not have the proper amount of fluid. The level was approximately half an inch below the sight glass.
- There is a placard attached to the firewall that states check fluid level every 25 hours.
- The owner said it had not been checked in 100 hours.
- There was evidence near both landing gear actuators of fluid seepage as well as near the hand pump.
- The left actuator was broken possibly from operation with air in the hydraulic system or during impact.
- Inspector Thorne was able to operate the hand pump and create pressure however it was impossible to get positive movement from the left actuator due to damage. The hand pump felt abnormal as if trying to pump air and fluid.
- Examination of the actuator end cap revealed a sheared screw head. There should be three screws holding this together; however, the left actuator only has one screw left intact.



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Figure 1: Sheared Screw Head from the Actuator End Cap (Photo Courtesy of FAA)