



National Transportation Safety Board

Memorandum

Date: May 5, 2017

Accident: ERA17LA165

Subject: Engine Examination – Todd Gunther (AS-ERA)

On the above listed date, the engine of N212AG was examined at the Leesburg Executive Airport (JYO), Leesburg Virginia by this investigator.

During the examination, no evidence of any preimpact failures or malfunctions were discovered that would have precluded normal operation.

The following information was garnered during the engine examination:

- No evidence of oil leaks was discovered and oil was present in the sump and throughout the engine.
- No metal was present on the magnetic drain plug or in the pleats of the oil filter.
- External and internal examination of the distributor, rotor, and points revealed no evidence of anomalies that would have precluded normal operation.
- Neither of the two ignition coils displayed any evidence of damage.
- Examination of the sparkplugs revealed the electrodes were gray in color and exhibited normal signatures.
- Thumb compression and suction was established on all cylinders, and continuity of the drivetrain was confirmed from the front to the back of the engine, and all the intake and exhaust valves were functional.
- Internal examination of the cylinders with a borescope did not exhibit any anomalies.
- Examination of the carburetor heat linkage and air door revealed that they were functional.
- External and internal examination of the carburetor revealed no evidence of malfunction, the accelerator pump was functional, the floats showed no sign of leakage, and the float bowl contained fluid consistent with 100LL Aviation Gasoline, that when tested with a coupon containing water finding paste, the paste did not change color, indicated that water was not present.