

ERA20LA290

Jacksonville, FL

September 10, 2020

~ 0900 EDT

Piper PA31-300, N4089R

NTSB ENGINE EXAMINATION SUMMARY

Personnel Present:

Daniel Boggs
Air Safety Investigator
National Transportation Safety Board
Ashburn, VA

Mike Childers
Air Safety investigator
Lycoming
Atlanta, GA

Engine Exam:

A visual exam of the engine revealed no anomalies. All components were installed correctly. The top spark plugs were removed and showed normal wear. Thumb compression was established on all cylinders. A lighted boroscope was used to exam the cylinders, valves and pistons. Carbon deposits were noted on the piston heads, but no anomalies noted. The #3 injector was removed for examination. It was clean and clear of deposits. The propeller blades were all straight and no damage noted. The induction air system was examined and clear of debris.

An external fuel tank was connected to input side of the fuel pump. The engine started after several turns of the propeller. The engine idled for several minutes to warm up to operating temperature. The engine was run at different RPM settings and ran up to full throttle. The engine ran smooth and no anomalies noted. A magneto check was performed, and each dropped between 25-50 RPM. The mixture was used to shut the engine down.

No anomalies were noted with this engine that would have precluded normal operation prior to the accident.