

National Transportation Safety Board

Office of Aviation Safety

Washington, DC 20594



CEN22LA036

ENGINE EXAMINATION

October 31, 2022

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A. ACCIDENT

Location: Weatherford, Texas
Date: October 30, 2021
Time: 1910 (Local)
Airplane: Cessna 177

B. ENGINE EXAMINATION

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National Transportation Safety Board
Denver, Colorado

C. SUMMARY

The engine was examined at Air Salvage of Dallas, Lancaster, Texas. No anomalies were detected with the engine which would have precluded normal operation.

D. DETAILS OF THE EXAMINATION

1.0 Engine Examination

The engine remained attached to the airframe. The rocker box covers were removed along with the upper bank of spark plugs. The propeller was rotated by hand and rocker arm movement, valve train continuity, and thumb compression was confirmed for each cylinder.

The left hand magneto produced spark at all terminals when the propeller was rotated by hand confirmed continuity through to the accessory gears. The right hand magneto did not produce spark to all terminals until it was removed and driven with a electric-powered driver.

The engine driven fuel pump was removed and hand actuated. Suction and flow could be felt on the orifice surfaces. Disassembly of the fuel pump did not reveal anomalies.

The electric fuel pump was removed and attached to a 12V battery. The pump could be heard operating.

Disassembly of the firewall fuel strainer was unremarkable. No debris was noted to the firewall fuel screen.

Examination of the carburetor found all engine control remained attached. When the carburetor was disassembled, there was slight hydraulic deformation of the floats in the bowl. A small quantity of sandy material was found in the carburetor bowl.

Submitted by:

Jason Aguilera
Senior Air Safety Investigator