

National Transportation Safety Board

Office of Aviation Safety

Washington, DC 20594



CEN24FA218

FUEL PUMP EXAMINATION

September 6, 2024

A. ACCIDENT

Location: Gainesville, TX
Date: June 11, 2024
Time: 2045 Local
0145 UTC
Airplane: Cessna172R

B. FUEL PUMP EXAMINATION

IIC	Laura Abraham NTSB Aurora, CO
Party Member	David Harsanyi Lycoming Engines Williamsport, PA
Party Member	Baker Nase FAA Irving, TX

C. DETAILS OF THE EXAMINATION

The fuel pump was retrieved from airplane storage at Air Salvage of Dallas. The pump was an Aero Accessories/Tempest Brand Fuel Pump - Part Number AF15473, Serial Number 066J15.

The pump was placed in a vice and actuated by hand to observe suction and compression at the inlet and outlet ports. Air bubbles and oil were observed along the split line of the top cap when actuated by hand.

All top five screws in the top cap were found to be finger-tight when light pressure with a screwdriver was applied. All 5 screws had signs of Loctite applied and one screw showed signs of torque stripe. All 5 bottom screws were tight with 2 having torque stripe applied and all 5 having Loctite applied.

All diaphragms were found intact with no damage or debris noted.



Fuel Pump Removed from Storage Box



Top 5 Screws with Loctite Applied



Bottom 5 Screws with Loctite Applied



Disassembled Pump Body and Diaphragm

Submitted by:

Laura Abraham
Air Safety Investigator