



MEMORANDUM FOR RECORD

Todd Gunther
Air Safety Investigator
Eastern Region

Date: April 15, 2022
Subject: Wreckage Examination
NTSB Case Number: ERA22LA157

On April 13, 2022, Examination of the wreckage was conducted by the NTSB at Case Towing, Lebanon, Ohio.

The following information was garnered during the examination:

- The vertical stabilizer and rudder displayed crush and compression damage.
- The right wing displayed crush and compression damage, on the outboard leading edge which progressed aft to the forward spar, with associated twisting which progressed aft and inboard from that location, to just forward of the right aileron and just outboard of the lift strut attachment fittings.
- The left wing, displayed impact damage to the wing tip, twisting of the wing, and compression damage and bending at the wing root.
- The fuel quantity gauge read "F" (Full).
- The throttle control was at idle.
- The carburetor heat control knob was in the "ON" position (Pulled out), and the carburetor air door was functional.
- The primer was in but was not locked.
- The fuel was "ON".
- The propeller displayed minimal, to no evidence, of rotation during the impact sequence.
- The propeller spinner was crushed back, and the lower portion of the engine cowling was pushed in.
- The engine contained oil.
- Compression and suction were established on all four cylinders.
- Drive train continuity was established from the front to the back of the engine.
- Internal examination of the magnetos did not reveal any evidence of preimpact failure or malfunctions.
- The spark plugs were gray in color and appeared normal.
- The gascolator (fuel strainer) screen was clean.

- The carburetor fuel screen was clean.
- Internal examination of the carburetor did not reveal any anomalies with the float, needle valve, throttle plate, discharge nozzle, venturi, or float chamber.