



RECORD OF EXAMINATION

Mitchell Gallo
Aviation Accident Investigator
Central Region

NTSB Accident Number: CEN17LA283

Party Participants: Nicole Charnon, Continental Motors, Air Safety Investigator
Ricardo Asensio, Textron Aviation, Air Safety Investigator

Narrative:

Post-accident examination of the airplane confirmed flight control continuity from the control surfaces to the cockpit controls. The floats gear handle was in the water position. The water rudders were in the up position. The tachometer indicated 21,940.

Examination of the pilot seat revealed it was latched, secure, and in place. Throttle, mixture, and propeller control continuity cockpit control to the engine and propeller governor was confirmed. Both propeller blades had chordwise gouging and leading edge semi-circular deformations consistent with rotational impact. The engine air intake was unobstructed. Borescope examination of the cylinders showed evidence of corrosion consistent with water immersion. The top spark plugs exhibited similar corrosion features and did not display carbon fouling. Hand rotation of the propeller confirmed drive and valve train continuity to the rear accessory case, and thumb compression through the top spark plug holes was confirmed during rotation. During the propeller rotation, the left magneto produced a sound consistent with a repetitive actuation of its impulse coupling, and no spark was produced through the ignition harness, which was secured to magneto terminal leads. The magnetos were removed and did not spark when the magnetos were rotated by hand. Both magnetos had internal corrosion consistent with water immersion. After both magnetos' contact points were cleaned, the magnetos were bench tested and produced a spark in correct firing order and across a 4 mm air gap. The inlet line to the carburetor contained water, and the carburetor screen did not contain debris.

A J.P. Instruments EDM-700 and a J.P. Instruments FS-450 cockpit display were removed and sent to the National Transportation Safety Board (NTSB) Vehicle Recorder Division for download of nonvolatile memory.

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