

Summary of Aircraft Examination

NATIONAL TRANSPORTATION SAFETY BOARD
Office of Aviation Safety
Washington, DC 20594

SUMMARY OF AIRCRAFT EXAMINATION

-- CEN22FA109 --

A. OVERVIEW

On January 30, 2022, about 1710 mountain standard time, an unregistered Christavia MK1 airplane sustained substantial damage when it was involved in an accident near Oral, South Dakota. The uncertificated pilot sustained fatal injuries. The airplane was operated as a Title 14 *Code of Federal Regulations* Part 91 personal flight.

B. PARTICIPANTS

Representatives from the NTSB and FAA participated in an exam of the aircraft at the accident site on the day following the accident.

C. SUMMARY OF ACCIDENT SITE EXAMINATION

The accident site was located by a friend of the pilot. The airplane came to rest upright about 100 yards from the pilot's residence. Postaccident examination of the airplane revealed the left wing aft spar was separated at the wing root, and the wing was displaced forward. The lower forward fuselage was crushed upward and aft. The outboard right wing displayed leading edge aft crush damage. A ground scar consistent with the wing leading edge was located below the wing. The engine was displaced downward and to the right (see figure 1.). The fixed-pitch propeller was located about 5 ft forward of the main wreckage and was separated at the engine crankshaft flange. The propeller blades displayed forward twisting deformation.

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Figure 1. Accident Airplane

Flight control continuity was established from the cockpit controls to all the flight control surfaces. The airframe and engine examination revealed no evidence of mechanical malfunctions or failures that would have precluded normal operation

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