

National Transportation Safety Board

Office of Aviation Safety

Washington, DC 20594



CEN22FA111

EXAMINATION SUMMARY

January 18, 2023

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A. ACCIDENT

Location: Hutchison, Minnesota
Date: January 31, 2022
Time: 1256 central standard time
Aircraft: Cirrus SR22, N227BD

B. EXAMINATION SUMMARY

NTSB: Timothy Sorensen
Aviation Accident Investigator
National Transportation Safety Board
Denver, Colorado

C. ACCIDENT SUMMARY

On January 31, 2022, about 1256 central standard time, a Cirrus SR22 airplane, N227BD, was destroyed when it was involved in an accident near Hutchinson, Minnesota. The flight instructor was seriously injured, and the pilot was fatally injured. The airplane was operated as a Title 14 *Code of Federal Regulations* Part 91 instructional flight.

An engine test run was conducted on January 18th at Poplar Grove Airmotive facilities in Poplar Grove, Illinois. Oversight was provided by the NTSB.

D. EXAMINATION SUMMARY

1.0 Engine Examination

Continental IO-550-N (s/n 691789)

The engine was prepared for a test run prior to arrival of the NTSB investigator. The oil sump and #6 cylinder exhaust valve cover were replaced due to impact damage. The remainder of the engine components and accessories were as received. The oil pump housing exhibited damage consistent with impact which caused an oil leak during the run. In addition, a small oil leak was observed at the replaced valve cover. The run time was limited for this reason.

Two test runs were conducted in the presence of the NTSB investigator. The runs were about 30 seconds and 60 seconds in duration, respectively. The engine started normally and ran to approximately 2,900 rpm. Throttle response was smooth and immediate, and the throttle idle check was normal. A magneto check produced a drop of approximately 80 rpm on each magneto, and engine operation was

continuous and smooth during that time. Oil pressure stabilized about 65 psi during the runs.



Figure 1 - Engine installed in test cell



Figure 2 - Left side of engine



Figure 3 - Right side of engine



Figure 4 - Accessory section of engine



Figure 5 - Impact damage to oil filter housing



Figure 6 - Engine data plate