



Aviation Investigation Final Report

Location: Sand Creek, Wisconsin Accident Number: GAA19CA074

Date & Time: November 21, 2018, 10:45 Local Registration: N579CP

Aircraft: Cirrus SR22 Aircraft Damage: Substantial

Defining Event: Loss of engine power (total) **Injuries:** 1 None

Flight Conducted Under: Part 91: General aviation - Ferry

Analysis

The pilot reported that, during a ferry flight, while climbing the airplane to cruise altitude, the engine temperatures increased quickly and that the engine then surged. The pilot added that he "switched" the boost pump, adjusted the mixture lever, and then deployed the ballistic parachute system at 3,500 ft mean sea level. During the off-airport landing in a field, the airplane impacted an irrigation sprinkler system.

The airplane sustained substantial damage to the fuselage.

Postaccident examination of the airplane by a Federal Aviation Administration (FAA) inspector revealed that two air lines were disconnected and that there were no torque lines on the lines. According to the FAA inspector, the pilot and a mechanic who had conducted the airplane's last maintenance reported that the airplane had been flown 7 hours since the last maintenance. The mechanic had replaced three cylinders during the maintenance, which required removal of the air lines. It is likely that, during the maintenance, the mechanic did not properly secure the air reference line, which led to a loss of engine power.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

The mechanic's failure to properly secure the air reference line, which resulted in a loss of engine power.

Findings

Aircraft (general) - Incorrect service/maintenance

Aircraft Fuel press sensor - Incorrect service/maintenance

Personnel issues (general) - Maintenance personnel
Personnel issues Post maintenance inspection - Pilot

Personnel issues Preflight inspection - Pilot

Environmental issues (general) - Contributed to outcome

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Factual Information

History of Flight

Enroute	Miscellaneous/other
Enroute	Loss of engine power (total) (Defining event)
Landing	Miscellaneous/other
Landing	Collision with terr/obj (non-CFIT)

Pilot Information

Certificate:	Commercial; Flight instructor	Age:	49,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Airplane single-engine; Instrument airplane	Toxicology Performed:	No
Medical Certification:	Class 2 Without waivers/limitations	Last FAA Medical Exam:	August 29, 2018
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	April 4, 2018
Flight Time:	(Estimated) 4200 hours (Total, all aircraft), 3500 hours (Total, this make and model), 4000 hours (Pilot In Command, all aircraft), 110 hours (Last 90 days, all aircraft), 30 hours (Last 30 days, all aircraft)		

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Aircraft and Owner/Operator Information

Aircraft Make:	Cirrus	Registration:	N579CP
Model/Series:	SR22 Undesignat	Aircraft Category:	Airplane
Year of Manufacture:	2008	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	3291
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	November 14, 2018 Annual	Certified Max Gross Wt.:	3400 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	1425 Hrs at time of accident	Engine Manufacturer:	TCM
ELT:	Installed	Engine Model/Series:	IO-550-N-51B
Registered Owner:		Rated Power:	310 Horsepower
Operator:	On file	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KRPD,1105 ft msl	Distance from Accident Site:	13 Nautical Miles
Observation Time:	16:35 Local	Direction from Accident Site:	345°
Lowest Cloud Condition:	Scattered / 9500 ft AGL	Visibility	10 miles
Lowest Ceiling:		Visibility (RVR):	
Wind Speed/Gusts:	8 knots /	Turbulence Type Forecast/Actual:	None / None
Wind Direction:	50°	Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	30.37 inches Hg	Temperature/Dew Point:	-7°C / -12°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Cumberland, WI (UBE)	Type of Flight Plan Filed:	IFR
Destination:	Akron, OH (CAK)	Type of Clearance:	IFR
Departure Time:	10:30 Local	Type of Airspace:	Class G

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Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	45.204723,-91.691665(est)

Administrative Information

Investigator In Charge (IIC):Swenson, EricAdditional Participating Persons:Nikolas Halatsis; FAA; Minneapolis, MNOriginal Publish Date:September 26, 2019Note:This accident report documents the factual circumstances of this accident as described to the NTSB.Investigation Docket:https://data.ntsb.gov/Docket?ProjectID=98684

The National Transportation Safety Board (NTSB), established in 1967, is an independent federal agency mandated by Congress through the Independent Safety Board Act of 1974 to investigate transportation accidents, determine the probable causes of the accidents, issue safety recommendations, study transportation safety issues, and evaluate the safety effectiveness of government agencies involved in transportation. The NTSB makes public its actions and decisions through accident reports, safety studies, special investigation reports, safety recommendations, and statistical reviews.

The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available here.

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