



Aviation Investigation Final Report

Location: Coquille Bay, Oregon Accident Number: WPR23LA267

Date & Time: July 8, 2023, 14:33 Local Registration: N9507D

Aircraft: Piper PA-22-160 Aircraft Damage: Substantial

Defining Event: Fuel starvation **Injuries:** 1 Serious

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The pilot of the airplane reported that, after completing a preflight inspection of the airplane he departed for a local flight. While enroute, at about 1500 above ground level (agl), the right tank ran out of fuel and the "engine cut out." As he was switching tanks, the airplane impacted terrain and nosed over. The airplane sustained substantial damage to both wings and forward fuselage.

The pilot reported that there were no preaccident mechanical failures or malfunctions with the airplane that would have precluded normal operation.

Probable Cause and Findings

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

The pilot's improper fuel management, which resulted in fuel starvation, a total loss of engine power, and impact with terrain.

Findings

Personnel issuesUse of equip/system - PilotAircraftFuel - Fluid managementPersonnel issuesFuel planning - Pilot

Aircraft Fuel - Fluid level

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Factual Information

History of Flight

Enroute	Fuel starvation (Defining event)
Enroute	Loss of engine power (total)
Enroute	Off-field or emergency landing

Pilot Information

Certificate:	Private	Age:	78,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	4-point
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	
Medical Certification:	Class 3 With waivers/limitations	Last FAA Medical Exam:	June 30, 2005
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	(Estimated) 862.4 hours (Total, all a	ircraft), 11.9 hours (Total, this make a	nd model)

Aircraft and Owner/Operator Information

Aircraft Make:	Piper	Registration:	N9507D
Model/Series:	PA-22-160	Aircraft Category:	Airplane
Year of Manufacture:	1958	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	22-6422
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	1287.9 Hrs at time of accident	Engine Manufacturer:	LYCOMING
ELT:	Installed	Engine Model/Series:	0-320 SERIES
Registered Owner:	On file	Rated Power:	180 Horsepower
Operator:	On file	Operating Certificate(s) Held:	None

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KOTH,17 ft msl	Distance from Accident Site:	14 Nautical Miles
Observation Time:	13:56 Local	Direction from Accident Site:	7°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	9 knots /	Turbulence Type Forecast/Actual:	None / None
Wind Direction:	300°	Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	30.01 inches Hg	Temperature/Dew Point:	17°C / 10°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Bandon, OR (S05)	Type of Flight Plan Filed:	None
Destination:	Bandon, OR (S05)	Type of Clearance:	Unknown
Departure Time:		Type of Airspace:	Class G

Wreckage and Impact Information

Crew Injuries:	1 Serious	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:		Aircraft Explosion:	None
Total Injuries:	1 Serious	Latitude, Longitude:	43.174194,-124.27574(est)

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Administrative Information

Investigator In Charge (IIC):	Gutierrez, Eric
Additional Participating Persons:	Keith Ruconich; Federal Aviation Administration; Portland, OR
Original Publish Date:	November 2, 2023
Last Revision Date:	
Investigation Class:	Class 4
Note:	The NTSB did not travel to the scene of this accident.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=192585

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, "accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person" (Title 49 Code of Federal Regulations section 831.4). Assignment of fault or legal liability is not relevant to the NTSB's statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 United States Code section 1154(b)). A factual report that may be admissible under 49 United States Code section 1154(b) is available here.

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