

Aviation Investigation Final Report

Location:	NEAR BIG LAKE, AI	aska	Incident Number:	ANC82IA067
Date & Time:	August 4, 1982, 21	:15 Local	Registration:	N70604
Aircraft:	PIPER	J-3	Aircraft Damage:	Minor
Defining Event:			Injuries:	2 None
Flight Conducted Under:	Part 91: General av	viation - Personal		

Analysis

DURING CRUISE FLIGHT, THE AIRCRAFTS ENGINE LOST POWER AND BEGAN VIBRATING SEVERLY. AFTER THE PILOT TRIED UNSUCCESSFULLY TO REMEDY THE PROBLEM, HE EXECUTED AN EMERGENCY LANDING IN A MARSH. SHORTLY AFTER TOUCHDOWN THE AIRCRAFT BOGGED DOWN AND NOSED OVER. A TEARDOWN EXAMINATION OF THE ENGINE REVEALED THAT IT HAD EXPERIENCED AN INTERNAL FAILURE IN THE AREA OF THE #1 AND #2 CYLINDERS. WHILE THE EXACT MODE AND SEQUENCE OF FAILURE WAS NOT IDENTIFIED, EVIDENCE OF INADEQUATE LUBRICATION WAS OBSERVED.

Probable Cause and Findings

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

Findings

Occurrence #1: LOSS OF ENGINE POWER(PARTIAL) - MECH FAILURE/MALF Phase of Operation: CRUISE - NORMAL

Findings 1. (C) ENGINE ASSEMBLY - FAILURE, PARTIAL

Factual Information

Pilot Information

Certificate:	Private	Age:	37,Male
Airplane Rating(s):	Single-engine land; Single-engine sea	Seat Occupied:	Unknown
Other Aircraft Rating(s):		Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Valid Medicalw/ waivers/lim	Last FAA Medical Exam:	November 20, 1980
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	129 hours (Total, all aircraft), 66 hours (Total, this make and model), 81 hours (Pilot In Command, all aircraft), 11 hours (Last 90 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	PIPER	Registration:	N70604
Model/Series:	J-3 J-3	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:		Serial Number:	17613
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	1220 lbs
Time Since Last Inspection:	422 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	9272 Hrs	Engine Manufacturer:	CONTINENTAL
ELT:	Installed	Engine Model/Series:	0-200A
Registered Owner:	STEPHEN F. TURNER	Rated Power:	100 Horsepower
Operator:	STEPHEN F. TURNER	Operating Certificate(s) Held:	
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:	Clear	Visibility	20 miles
Lowest Ceiling:	Unknown	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:	0°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	70°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	LAKE HOOD , AK (LHD)	Type of Flight Plan Filed:	None
Destination:	LAKE HOOD , AK (LHD)	Type of Clearance:	None
Departure Time:	19:30 Local	Type of Airspace:	

Airport Information

Airport:		Runway Surface Type:	
Airport Elevation:	0 ft msl	Runway Surface Condition:	
Runway Used:	0	IFR Approach:	None
Runway Length/Width:	0 ft / 0 ft	VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Minor
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	
Additional Participating Persons:	
Original Publish Date:	August 4, 1983
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=71848

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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.