



Aviation Investigation Final Report

Location: SACRAMENTO, California Accident Number: LAX89LA146

Date & Time: May 9, 1989, 10:00 Local Registration: N7238A

Aircraft: BEECH A36 Aircraft Damage: Substantial

Defining Event: 2 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

DURING A CLIMB TO ALT, THE ENG SUDDENLY MADE A LOUD GRINDING SOUND & BEGAN TO VIBRATE. THE PLT MADE A FORCED LANDING IN A CULTIVATED FIELD. WHILE LANDING, THE ACFT ENCOUNTERED FURROWS IN THE TERRAIN & THE GEAR COLLAPSED. AN INSPN OF THE ENG REVEALED THE #4 PISTON HAD FAILED.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: FAILURE OF THE NUMBER FOUR PISTON ASSEMBLY. A FACTOR RELATED TO THE ACCIDENT WAS: THE SOFT/UNEVEN TERRAIN IN THE EMERGENCY LANDING AREA.

Findings

Occurrence #1: LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF

Phase of Operation: CLIMB - TO CRUISE

Findings

1. (C) ENGINE ASSEMBLY, PISTON - FAILURE, TOTAL

Occurrence #2: FORCED LANDING

Phase of Operation: DESCENT - EMERGENCY

Occurrence #3: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER

Phase of Operation: LANDING - ROLL

Findings
2. (F) TERRAIN CONDITION - SOFT
3. (F) TERRAIN CONDITION - ROUGH/UNEVEN

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Factual Information

Pilot Information

Certificate:	Commercial; Flight instructor	Age:	35,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Airplane single-engine; Instrument airplane	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	October 3, 1988
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	1560 hours (Total, all aircraft), 40 hours (Total, this make and model), 1407 hours (Pilot In Command, all aircraft), 179 hours (Last 90 days, all aircraft), 60 hours (Last 30 days, all aircraft)		

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Aircraft and Owner/Operator Information

Aircraft Make:	BEECH	Registration:	N7238A
Model/Series:	A36 A36	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Utility	Serial Number:	E-2254
Landing Gear Type:	Retractable - Tricycle	Seats:	6
Date/Type of Last Inspection:	March 30, 1989 Annual	Certified Max Gross Wt.:	3650 lbs
Time Since Last Inspection:	35 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	738 Hrs	Engine Manufacturer:	CONTINENTAL
ELT:	Installed, activated, did not aid in locating accident	Engine Model/Series:	IO-550-B
Registered Owner:	FTA LTD	Rated Power:	300 Horsepower
Operator:	WOODLAND AVIATION	Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

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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:	Unknown	Visibility	7 miles
Lowest Ceiling:	Overcast / 1400 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	12 knots / 15 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	190°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	10°C / 16°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ition	
Departure Point:	SACRAMENTO , CA (SAC)	Type of Flight Plan Filed:	IFR
Destination:	REDDING , CA (085)	Type of Clearance:	IFR
Departure Time:	09:57 Local	Type of Airspace:	Class E

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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:	Forced landing

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	38.509422,-121.490249(est)

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Administrative Information

Investigator In Charge (IIC):	Eckrote, Debra	
Additional Participating Persons:	JIM NELSON; SACRAMENTO , CA	
Original Publish Date:	June 28, 1991	
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=26367	

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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