

Aviation Investigation Final Report

Location: GREENFIELD, Indiana Accident Number: CHI85FEX02

Date & Time: June 8, 1985, 21:07 Local Registration: N1773H

Aircraft: CESSNA 310C Aircraft Damage: Substantial

Defining Event: 3 Serious

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

WHILE EN ROUTE, THE L ENG SUDDENLY LOST POWER & WOULD NOT RESTART, SO THE PLT FEATHERED THE L PROP. AFTER LETTING IT COOL APRX 5 MIN, HE TRIED RESTARTING IT AGAIN, BUT STILL WAS UNABLE. HE STATED HE THOUGHT HE THEN SECURED (FEATHERED) THE L ENG. THE PLT DIVERTED TOWARD INDIANAPOLIS. HE NOTED THAT THE R ENG BEGAN TO OVERHEAT & LOSE POWER. SUBSEQUENTLY, THE ACFT CRASH LANDED IN A CORN FLD AT NGT WITH THE LNDG GEAR RETRACTED & W/O LNDG LGTS (LGTS WOULD NOT EXTEND). AN EXAMREVEALED FUEL WAS REMAINING IN ALL TANKS. SHERIFF PSNL HAD MOVED THE FUEL SELECTORS WHEN THEY ARRIVED, SO THE SELECTOR POSITIONS WERE NOT VERIFIED. FOUND L THROTTLE FULL FWD, L MIX CTL MID-RANGE, L PROP CTL FULL LOW RPM (NOT FEATHERED). THE L PROP WAS NOT FEATHERED; BUT THE R PROP WAS FEATHERED (PLT SAID HE FEATHERED IT JUST BEFORE IMPACT). A TEARDOWN OF THE L ENG REVEALED THE #4 MAIN BEARING HAD FAILED; BOTTOM HALF OF OIL COOLER WAS 95% BLOCKED FROM SOFT METAL CONTAMIN-ATION, PROP GOV MOUNTING GASKET WAS 75% BLOCKED BY METAL CONTAMINATION; BUT THE L ENG CRANKSHAFT WOULD STILL TURN.

Probable Cause and Findings

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

Findings

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

Phase of Operation: CRUISE - NORMAL

Findings

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

- 2. PROPELLER FEATHERING PERFORMED PILOT IN COMMAND
- 3. PROPELLER FEATHERING NOT MAINTAINED PILOT IN COMMAND
- 4. (C) PROPELLER FEATHERING IMPROPER PILOT IN COMMAND
- 5. (F) ENGINE ASSEMBLY, OTHER OVERTEMPERATURE
- 6. (C) AIRCRAFT PERFORMANCE, TWO OR MORE ENGINES UNDETERMINED

Occurrence #2: FORCED LANDING

Phase of Operation: DESCENT - EMERGENCY

Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: LANDING

Findings

7. (F) LIGHT CONDITION - DARK NIGHT

8. (F) LANDING LIGHT(S) - INOPERATIVE

9. WHEELS UP LANDING

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Factual Information

Pilot Information

Certificate:	Commercial	Age:	62,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):		Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medicalw/ waivers/lim	Last FAA Medical Exam:	March 11, 1985
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	2445 hours (Total, all aircraft), 1227 hours (Total, this make and model), 2296 hours (Pilot In Command, all aircraft), 25 hours (Last 90 days, all aircraft), 8 hours (Last 30 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

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Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N1773H
Model/Series:	310C 310C	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	35873
Landing Gear Type:	Retractable - Tricycle	Seats:	5
Date/Type of Last Inspection:	June 10, 1984 Annual	Certified Max Gross Wt.:	4830 lbs
Time Since Last Inspection:	0 Hrs	Engines:	2 Reciprocating
Airframe Total Time:	52944 Hrs	Engine Manufacturer:	CONTINENTAL
ELT:	Installed, not activated	Engine Model/Series:	IO-470-D
Registered Owner:	HERBERT . OAKLEY	Rated Power:	260 Horsepower
Operator:		Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Night/dark
Observation Facility, Elevation:	IND ,866 ft msl	Distance from Accident Site:	23 Nautical Miles
Observation Time:	09:15 Local	Direction from Accident Site:	278°
Lowest Cloud Condition:	2500 ft AGL	Visibility	7 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	6 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	200°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	24°C / 21°C
Precipitation and Obscuration:	No Obscuration; No Precipit	ation	
Departure Point:	ST.LOUIS , MO (STL)	Type of Flight Plan Filed:	None
Destination:	COLUMBUS , OH (CMH)	Type of Clearance:	None
Departure Time:	00:00 Local	Type of Airspace:	Class G

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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 Serious	Aircraft Damage:	Substantial
Passenger Injuries:	2 Serious	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	3 Serious	Latitude, Longitude:	39.789463,-85.769035(est)

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Administrative Information

Investigator In Charge (IIC): Shanks, Delmus

Additional Participating JAMES R FRESEMAN;

Persons: LEWIS J PENCE; PALESTINE , IN

Original Publish Date:

Last Revision Date:

Investigation Class: Class

Note:

Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=12900

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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