



# **Aviation Investigation Final Report**

Location: JACKSON, Ohio Accident Number: CHI88DEG01

Date & Time: September 18, 1988, 16:45 Local Registration: N9053D

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

**Defining Event:** 3 None

Flight Conducted Under: Part 91: General aviation - Personal

### **Analysis**

WHILE IN CRUISE FLIGHT, THE ENG BEGAN RUNNING ROUGH & WOULD NOT PRODUCE ENOUGH POWER TO MAINTAIN LEVEL FLT. THE PLT SELECTED A PASTURE FOR AN EMERGENCY LANDING. JUST BEFORE LANDING, THE ACFT STRUCK & SEVERED A TRANSMISSION LINE. IT THEN BRUSHED A TREETOP & CRASHED INTO A HAYBALE & A FENCE BEFORE COMING TO REST. AN EXAM OF THE ENG REVEALED THE #3 EXHAUST VALVE HAD FAILED.

### **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, VALVE, EXHAUST - FAILURE, TOTAL

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Occurrence #2: FORCED LANDING

Phase of Operation: DESCENT - EMERGENCY

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Occurrence #3: IN FLIGHT COLLISION WITH OBJECT Phase of Operation: LANDING - FLARE/TOUCHDOWN

### Findings

2. (C) VISUAL LOOKOUT - INADEQUATE - PILOT IN COMMAND

3. (F) OBJECT - WIRE, TRANSMISSION

4. (F) OBJECT - TREE(S)

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Occurrence #4: ON GROUND/WATER COLLISION WITH OBJECT

Phase of Operation: LANDING

### Findings

5. (F) OBJECT - FENCE

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# **Factual Information**

### **Pilot Information**

Certificate:	Private	Age:	39,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	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:	August 7, 1987
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	75 hours (Total, all aircraft), 12 hours (Total, this make and model), 36 hours (Pilot In Command, all aircraft), 16 hours (Last 90 days, all aircraft), 7 hours (Last 30 days, all aircraft)		

## **Aircraft and Owner/Operator Information**

Aircraft Make:	PIPER	Registration:	N9053D
Model/Series:	PA-22-160 PA-22-160	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	22-6193
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	February 13, 1988 Annual	Certified Max Gross Wt.:	2000 lbs
Time Since Last Inspection:	14 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	2334 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Installed, activated, aided in locating accident	Engine Model/Series:	O-320-B2A
Registered Owner:	STEVEN NMI REED	Rated Power:	160 Horsepower
Operator:		Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

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# Meteorological Information and Flight Plan

Visual (VMC)	Condition of Light:	Day
CMH	Distance from Accident Site:	
16:50 Local	Direction from Accident Site:	
Scattered / 2500 ft AGL	Visibility	5 miles
Broken / 3300 ft AGL	Visibility (RVR):	
/	Turbulence Type Forecast/Actual:	/
0°	Turbulence Severity Forecast/Actual:	/
30 inches Hg	Temperature/Dew Point:	26°C / 20°C
No Obscuration; No Precipitation		
CHILLICOTHE , OH (RZT )	Type of Flight Plan Filed:	None
(RZT)	Type of Clearance:	None
16:20 Local	Type of Airspace:	Class G
	CMH  16:50 Local  Scattered / 2500 ft AGL  Broken / 3300 ft AGL  /  0°  30 inches Hg  No Obscuration; No Precipital CHILLICOTHE , OH (RZT)  (RZT)	CMH Distance from Accident Site:  16:50 Local Direction from Accident Site:  Scattered / 2500 ft AGL Visibility  Broken / 3300 ft AGL Visibility (RVR):  / Turbulence Type Forecast/Actual:  0° Turbulence Severity Forecast/Actual:  30 inches Hg Temperature/Dew Point:  No Obscuration; No Precipitation  CHILLICOTHE , OH (RZT) Type of Flight Plan Filed:  (RZT) Type of Clearance:

## **Airport Information**

Airport:		Runway Surface Type:	
Airport Elevation:	0 ft msl	<b>Runway Surface Condition:</b>	
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:	2 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	3 None	Latitude, Longitude:	39.199005,-82.680953(est)

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#### **Administrative Information**

Investigator In Charge (IIC): Laird jr., Joe

Additional Participating
Persons:

Original Publish Date: November 28, 1989

Last Revision Date:

Investigation Class: Class

Note:

Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=13859

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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