

# **Aviation Investigation Final Report**

Location: ALICEVILLE, Alabama Accident Number: ATL93LA001

Date & Time: October 2, 1992, 08:45 Local Registration: N8548P

Aircraft: PIPER PA-24-260 Aircraft Damage: Substantial

**Defining Event:** 4 None

Flight Conducted Under: Part 91: General aviation - Personal

#### **Analysis**

ACCORDING TO THE PILOT, HE COMPLETED A PREFLIGHT INSPECTION AND DID NOT NOTICE ANY PROBLEMS WITH THE AIRPLANE. THE TAKEOFF AND CLIMB TO 5500 FEET WERE REPORTED AS NORMAL, BUT 30 MINUTES INTO THE FLIGHT THE PILOT EXPERIENCED A COMPLETE LOSS OF ENGINE POWER. THE EMERGENCY PROCEDURE TO RESTORE ENGINE POWER FAILED, THEREFORE THE PILOT ESTABLISHED AN EMERGENCY DESCENT FOR A FORCED LANDING. THE AIRPLANE SUSTAINED SUBSTANTIAL DAMAGE DURING THE FORCED LANDING. EXAMINATION OF THE AIRPLANE DISCLOSED THAT THE FUEL LINE BETWEEN THE FUEL PUMP AND FUEL INJECTOR HAD SEPARATED AT THE FUEL INJECTOR. THE MAINTENANCE LOG REVIEW DISCLOSED THAT THE AIRPLANE HAD UNDERGONE A 100 HOUR INSPECTION AND AN ENGINE INSTALLATION 5 HOURS PRIOR TO THE ACCIDENT. NO OTHER MAINTENANCE PROBLEMS WERE NOTED DURING THE EXAMINATION.

### **Probable Cause and Findings**

The National Transportation Safety Board determines the probable cause(s) of this accident to be: MAINTENANCE PERSONNEL'S FAILURE TO PROPERLY SECURE THE FUEL LINE FROM THE FUEL PUMP TO THE FUEL INJECTOR DURING THE ENGINE INSTALLATION, WHICH RESULTED IN A COMPLETE ENGINE FAILURE.

#### **Findings**

Occurrence #1: LOSS OF ENGINE POWER(TOTAL) - NONMECHANICAL

Phase of Operation: CRUISE

#### Findings

1. (C) FUEL SYSTEM, LINE - NOT SECURED

2. (C) MAINTENANCE, INSTALLATION - IMPROPER - OTHER MAINTENANCE PERSONNEL

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Occurrence #2: FORCED LANDING

Phase of Operation: DESCENT - EMERGENCY

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Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: MANEUVERING - TURN TO LANDING AREA (EMERGENCY)

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## **Factual Information**

#### **Pilot Information**

Certificate:	Commercial	Age:	52,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	January 19, 1992
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	684 hours (Total, all aircraft), 19 hours (Total, this make and model), 609 hours (Pilot In Command, all aircraft), 29 hours (Last 90 days, all aircraft), 22 hours (Last 30 days, all aircraft), 4 hours (Last 24 hours, all aircraft)		

## Aircraft and Owner/Operator Information

Aircraft Make:	PIPER	Registration:	N8548P
Model/Series:	PA-24-260 PA-24-260	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	24-4005
Landing Gear Type:	Retractable - Tricycle	Seats:	4
Date/Type of Last Inspection:	May 8, 1992 Annual	Certified Max Gross Wt.:	3100 lbs
Time Since Last Inspection:	5 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	2468 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Installed	Engine Model/Series:	I0-540-04A5
Registered Owner:	PICKERING AND MCKINNEY	Rated Power:	260 Horsepower
Operator:	PICKERING AND MCKINNEY	Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	GTR ,264 ft msl	Distance from Accident Site:	25 Nautical Miles
Observation Time:	08:35 Local	Direction from Accident Site:	300°
<b>Lowest Cloud Condition:</b>	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	5 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	50°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	14°C / 11°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	COLUMBUS , MS (GTR)	Type of Flight Plan Filed:	None
Destination:	GAINESVILLE , FL (GNV )	Type of Clearance:	None
Departure Time:	08:00 Local	Type of Airspace:	Class G

## **Airport Information**

Airport:		Runway Surface Type:	
Airport Elevation:		<b>Runway Surface Condition:</b>	
Runway Used:	0	IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	Forced landing

## Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	3 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	4 None	Latitude, Longitude:	33.119709,-88.149169(est)

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#### **Administrative Information**

Investigator In Charge (IIC): Powell, Phillip

Additional Participating Persons:

Original Publish Date: June 21, 1993

Last Revision Date:

Investigation Class: Class

Note:

Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=8686

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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