



Aviation Investigation Final Report

Location:	RUSTON, Louisiana	Accident Number:	FTW93LA084
Date & Time:	February 11, 1993, 16:50 Local	Registration:	N6290Y
Aircraft:	PIPER PA-23-250	Aircraft Damage:	Substantial
Defining Event:		Injuries:	2 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

WHILE LANDING ON A RUNWAY WITH A DISPLACE THRESHOLD, BRAKING ACTION WAS LOST AND THE PILOT WAS UNABLE TO STOP THE AIRPLANE ON THE REMAINING RUNWAY. SUBSEQUENTLY, THE AIRPLANE RAN OFF THE END OF THE RUNWAY AND COLLIDED WITH THREE SMALL TREES, WHICH DAMAGED THE RIGHT WING. AN INSPECTION REVEALED A LEAK IN A BRAKE LINE FITTING HAD ALLOWED THE HYDRAULIC SYSTEM TO BE DEPLETED OF FLUID.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: FAILURE AT A HYDRAULIC FITTING, WHICH RESULTED IN A HYDRAULIC LEAK, LOSS OF HYDRAULIC FLUID, AND SUBSEQUENT LOSS OF BRAKING ACTION DURING THE LANDING ROLL.

Findings

Occurrence #1: OVERRUN
Phase of Operation: LANDING - ROLL

Findings

1. AIRPORT FACILITIES,RUNWAY/LANDING AREA CONDITION - DISPLACED THRESHOLD
2. (C) HYDRAULIC SYSTEM,FITTING - FAILURE,TOTAL
3. (C) FLUID,HYDRAULIC - LEAK
4. (C) LANDING GEAR,NORMAL BRAKE SYSTEM - INOPERATIVE

Occurrence #2: ON GROUND/WATER COLLISION WITH OBJECT
Phase of Operation: LANDING - ROLL

Findings

5. OBJECT - TREE(S)

Factual Information

Pilot Information

Certificate:	Commercial; Flight instructor	Age:	23, 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:	Yes
Instructor Rating(s):	Airplane multi-engine; Airplane single-engine	Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medical--no waivers/lim.	Last FAA Medical Exam:	January 25, 1993
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	698 hours (Total, all aircraft), 42 hours (Total, this make and model), 570 hours (Pilot In Command, all aircraft), 86 hours (Last 90 days, all aircraft), 57 hours (Last 30 days, all aircraft), 7 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	PIPER	Registration:	N6290Y
Model/Series:	PA-23-250 PA-23-250	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	27-3450
Landing Gear Type:	Retractable - Tricycle	Seats:	6
Date/Type of Last Inspection:	July 14, 1992 Annual	Certified Max Gross Wt.:	5200 lbs
Time Since Last Inspection:	89 Hrs	Engines:	2 Reciprocating
Airframe Total Time:	3700 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Installed, not activated	Engine Model/Series:	IO-540-C4B5
Registered Owner:	MOUNTAIN AVIATION	Rated Power:	250 Horsepower
Operator:	MOUNTAIN AVIATION	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:	Day
Observation Facility, Elevation:	MLU ,79 ft msl	Distance from Accident Site:	30 Nautical Miles
Observation Time:	16:49 Local	Direction from Accident Site:	90°
Lowest Cloud Condition:	Scattered / 5000 ft AGL	Visibility	8 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	9 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	230°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29 inches Hg	Temperature/Dew Point:	19°C / 12°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	BATON ROUGE , LA (BTR)	Type of Flight Plan Filed:	IFR
Destination:	(RSN)	Type of Clearance:	None
Departure Time:	15:45 Local	Type of Airspace:	Class G

Airport Information

Airport:	RUSTON MUNICIPAL RSN	Runway Surface Type:	Asphalt
Airport Elevation:	327 ft msl	Runway Surface Condition:	Dry
Runway Used:	16	IFR Approach:	
Runway Length/Width:	2798 ft / 90 ft	VFR Approach/Landing:	Full stop

Wreckage and Impact Information

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

Administrative Information

Investigator In Charge (IIC):	Ellis, Matthew
Additional Participating Persons:	ANTHONY MICHELLI; BATON ROUGE , LA
Original Publish Date:	May 28, 1993
Last Revision Date:	
Investigation Class:	Class
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=18637

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