

Aviation Investigation Final Report

Location:	BIG BEAR CITY, Ca	llifornia	Accident Number:	LAX87LA022
Date & Time:	October 20, 1986,	13:15 Local	Registration:	N9206D
Aircraft:	PIPER	PA-22-160	Aircraft Damage:	Substantial
Defining Event:			Injuries:	4 None
Flight Conducted Under:	Part 91: General av	viation - Personal		

Analysis

THE ACFT VEERED OFF RWY 7 DURING LANDING ROLL. THE PLT INDICATED THE ACFT VEERED TO THE RIGHT. THERE WAS A SINGLE RUBBER SKID MARK APRX 150 FT LONG FOUND ON THE RWY. THE WIND WAS REPORTED BY ANOTHER PLT TO BE 'DOWN THE RUNWAY AT 10-15 KNOTS.' EXAMINATION OF THE ACFT REVEALED THE LEFT BRAKE MASTER CYLINDER FAILED. METAL PARTICLES HAD CONTAMINATED THE BRAKE FLUID. VISUAL INSPECTION OF THE CYLINDER WALLS SHOWED SIGNS OF DETERIORATION.

Probable Cause and Findings

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

Findings

Occurrence #1: AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation: LANDING - ROLL

Findings

1. (C) LANDING GEAR, NORMAL BRAKE SYSTEM - WORN

2. (C) LANDING GEAR, NORMAL BRAKE SYSTEM - FAILURE, PARTIAL

3. (F) FLUID, HYDRAULIC - CONTAMINATION

Occurrence #2: LOSS OF CONTROL - ON GROUND/WATER

Phase of Operation: LANDING - ROLL

Findings 4. (C) BRAKES(NORMAL) - NOT POSSIBLE - PILOT IN COMMAND 5. (C) DIRECTIONAL CONTROL - NOT POSSIBLE - PILOT IN COMMAND

Occurrence #3: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER Phase of Operation: LANDING - ROLL

Factual Information

Pilot Information

Certificate:	Airline transport; Commercial; Flight engineer	Age:	47,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):	None	Toxicology Performed:	No
Medical Certification:	Class 1 Valid Medicalw/ waivers/lim	Last FAA Medical Exam:	May 12, 1986
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:	13244 hours (Total, all aircraft), 69 hours (Total, this make and model), 6030 hours (Pilot In Command, all aircraft), 214 hours (Last 90 days, all aircraft), 84 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	PIPER	Registration:	N9206D
Model/Series:	PA-22-160 PA-22-160	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	22-6265
Landing Gear Type:	Tailwheel	Seats:	4
Date/Type of Last Inspection:	November 17, 1985 Annual	Certified Max Gross Wt.:	1840 lbs
Time Since Last Inspection:	17 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	3168 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Installed, not activated	Engine Model/Series:	0-320-B2B
Registered Owner:	MUELLNER, PETER M.	Rated Power:	160 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:	Day
Observation Facility, Elevation:	SBD ,1157 ft msl	Distance from Accident Site:	22 Nautical Miles
Observation Time:	12:50 Local	Direction from Accident Site:	225°
Lowest Cloud Condition:	Scattered / 6000 ft AGL	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	6 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	240°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	24°C / 9°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	SAN DIEGO , CA (SAN)	Type of Flight Plan Filed:	None
Destination:	BIG BEAR CITY, CA (L35)	Type of Clearance:	None
Departure Time:	12:00 Local	Type of Airspace:	Class G

Airport Information

Airport:	BIG BEAR CITY L35	Runway Surface Type:	Asphalt
Airport Elevation:	6750 ft msl	Runway Surface Condition:	Dry
Runway Used:	7	IFR Approach:	None
Runway Length/Width:	5850 ft / 75 ft	VFR Approach/Landing:	Straight-in

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:	34.259094,-116.84027(est)

Administrative Information

Investigator In Charge (IIC):	Wilcox, Thomas
Additional Participating Persons:	
Original Publish Date:	
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=25458

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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 <u>here</u>.