

Aviation Investigation Final Report

Location:	SHELTON, Washin	gton	Accident Number:	SEA88LA161
Date & Time:	August 23, 1988, 1	6:30 Local	Registration:	N8370H
Aircraft:	PIPER	J3C-65	Aircraft Damage:	Substantial
Defining Event:			Injuries:	1 Minor
Flight Conducted Under:	Part 91: General av	viation - Personal		

Analysis

THE PILOT REPORTED A COMPLETE LOSS OF POWER IN CRUISE FLIGHT WHILE FERRYING AN AIRCRAFT TO ITS HOME BASE AFTER AN ANNUAL INSPECTION. THE PILOT LANDED IN A SMALL FIELD OF RYE CROP. THE PILOT STATED THAT THE SIZE OF THE FIELD PRECLUDED A NORMAL APPROACH. THE AIRCRAFT MADE A HARD LANDING INTO THE SMALL FIELD. THE POST ACCIDENT INVESTIGATION REVEALED THAT THE FUEL FITTING TO THE CARBURETOR BROKE IN FLIGHT. FUEL STAINS WERE FOUND ALONG THE LOWER PORTION OF THE FUSELAGE. NO FUEL WAS FOUND IN THE CARBURETOR. EXAMINATION OF THE ENGINE REVEALED THAT THE FITTING HAD BEEN DEFORMED AT SOME PREVIOUS TIME. THE AIRCRAFT RECORDS SHOWED THAT THE FITTING HAD BEEN ADJUSTED DURING THE ANNUAL INSPECTION.

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(TOTAL) - MECH FAILURE/MALF Phase of Operation: CRUISE - NORMAL

Findings 1. (F) FUEL SYSTEM, LINE FITTING - PREVIOUS DAMAGE 2. (C) FUEL SYSTEM, LINE FITTING - OVERTORQUE
3. (C) MAINTENANCE, ADJUSTMENT - IMPROPER - OTHER MAINTENANCE PERSONNEL
4. (C) FUEL SYSTEM, LINE FITTING - LEAK
5. (C) FLUID, FUEL - STARVATION

Occurrence #2: FORCED LANDING Phase of Operation: LANDING

Occurrence #3: HARD LANDING Phase of Operation: LANDING

Findings

6. (F) TERRAIN CONDITION - NONE SUITABLE 7. (F) PROPER TOUCHDOWN POINT - RESTRICTED

Factual Information

Pilot Information

Certificate:	Commercial; Flight instructor	Age:	55,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Rear
Other Aircraft Rating(s):	Helicopter	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Airplane multi-engine; Airplane single-engine	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medical–w/ waivers/lim	Last FAA Medical Exam:	August 5, 1987
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	7195 hours (Total, all aircraft), 50 hours (Total, this make and model), 6490 hours (Pilot In Command, all aircraft), 1 hours (Last 90 days, all aircraft), 1 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	PIPER	Registration:	N8370H
Model/Series:	J3C-65 J3C-65	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	8874
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	August 13, 1988 Annual	Certified Max Gross Wt.:	1220 lbs
Time Since Last Inspection:	3 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	2174 Hrs	Engine Manufacturer:	CONTINENTAL
ELT:	Installed, activated, did not aid in locating accident	Engine Model/Series:	C-85-12F
Registered Owner:	BRANDON R. D. HARNISCH	Rated Power:	85 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:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:	Clear	Visibility	50 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	5 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	45°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	29°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:		Type of Flight Plan Filed:	None
Destination:	ELMA , WA (WA22)	Type of Clearance:	None
Departure Time:	16:00 Local	Type of Airspace:	Class G

Airport Information

Airport:		Runway Surface Type:	
Airport Elevation:	0 ft msl	Runway Surface Condition:	Vegetation
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 Minor	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Minor	Latitude, Longitude:	47.230861,-123.200721(est)

Administrative Information

Investigator In Charge (IIC):	Daily, H	
Additional Participating Persons:	JOHN JACKSON; SEATTLE , WA	
Original Publish Date:	September 29, 1989	
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=40872	

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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>.