



Aviation Investigation Final Report

Location: Milwaukee, Wisconsin Accident Number: CHI02LA091

Date & Time: March 13, 2002, 15:38 Local Registration: N29RG

Aircraft: Aviat Pitts S-2B Aircraft Damage: Substantial

Defining Event: 1 Minor

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The airplane experienced a total loss of engine power approximately three minutes after departure and the pilot performed a forced landing into an agricultural field. During the forced landing, the airplane impacted a telephone pole. During a post-accident inspection the engine was started and ran without anomalies between 600 and 800 rpm. The engine was not run at a higher rpm due to vibrations caused by the bent propeller. The engine responded to throttle control inputs and the engine was shut down using the mixture control. The propeller was removed, straightened, and reinstalled on the engine. The engine was subjected to a static power-run and operated with no anomalies at 2,500 rpm for approximately 10 minutes. No anomalies were found with the fuel system and/or engine that could be associated with any preexisting condition that would have precluded the normal operation of the engine.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The loss of engine power for undetermined reasons. A factor in the accident was the telephone pole.

Findings

Occurrence #1: LOSS OF ENGINE POWER

Phase of Operation: CRUISE

Findings

1. (C) REASON FOR OCCURRENCE UNDETERMINED

Occurrence #2: FORCED LANDING

Phase of Operation: EMERGENCY DESCENT/LANDING

Occurrence #3: IN FLIGHT COLLISION WITH OBJECT Phase of Operation: EMERGENCY DESCENT/LANDING

Findings

2. (F) OBJECT - POLE

Occurrence #4: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: DESCENT - UNCONTROLLED

Findings

3. TERRAIN CONDITION - PLOWED/FURROWED

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Factual Information

On March 13, 2002, at 1538 central standard time, an Aviat Pitts S-2B, N29RG, piloted by a private pilot, sustained substantial damage during an in-flight collision with a telephone pole while executing a forced landing in Milwaukee, Wisconsin. Visual meteorological conditions prevailed at the time of the accident. The flight was being operated under the provisions of 14 CFR Part 91 without a flight plan. The pilot, the sole occupant of the airplane, reported minor injuries. The local flight departed the Lawrence J. Timmerman Airport (MWC), Milwaukee, Wisconsin, at 1531.

According to MWC control tower records the accident airplane departed northeast bound at 1531 and three minutes after departure the pilot reported a loss of engine power.

According to the pilot's written statement, "Approximately 15 minutes into the flight, while at cruise, the engine suddenly quit. I looked for a place to land & spotted a field with a limited flat spot for landing. I did not have enough altitude to make an airport. While landing on the field, the aircraft struck a pole." The pilot reported, "Prior to exiting the aircraft, I turned off all switches, including gas."

Inspectors with the Federal Aviation Administration (FAA) Milwaukee Flight Standards District Office (FSDO) performed the post-accident inspection of the airframe and engine. Fuel was found in the main fuel tank, main fuel sump, engine driven fuel pump, and all fuel distribution lines. The engine driven fuel pump operated when the engine was rotated. The electric fuel pump operated when electrical power was applied to the pump. The mixture and throttle controls regulated fuel flow in all positions without anomalies. When the engine was rotated both magnetos produced a spark on all leads and there was compression on all cylinders.

The engine was started and ran without anomalies between 600 and 800 rpm. The engine was not run at a higher rpm due to vibrations caused by the bent propeller. The engine responded to throttle control inputs and the engine was shut down using the mixture control. The propeller was removed, straightened, and reinstalled on the engine. The engine was subjected to a static power-run and operated with no anomalies at 2,500 rpm for approximately 10 minutes.

No anomalies were found with the fuel system and/or engine that could be associated with any preexisting condition that would have precluded the normal operation of the engine.

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Pilot Information

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Certificate:	Private	Age:	61,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Rear
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 3 Valid Medicalw/ waivers/lim	Last FAA Medical Exam:	May 3, 2001
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	May 4, 2001
Flight Time:	1500 hours (Total, all aircraft), 700 hours (Total, this make and model), 1500 hours (Pilot In Command, all aircraft), 3 hours (Last 90 days, all aircraft), 3 hours (Last 30 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Aviat	Registration:	N29RG
Model/Series:	Pitts S-2B	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Aerobatic; Normal	Serial Number:	5229
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	January 10, 2001 Annual	Certified Max Gross Wt.:	1450 lbs
Time Since Last Inspection:	40 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	430 Hrs at time of accident	Engine Manufacturer:	Textron Lycoming
ELT:	Installed	Engine Model/Series:	AEIO-540-D4A5
Registered Owner:	Ralph Gary Gorenstein	Rated Power:	300 Horsepower
Operator:		Operating Certificate(s) Held:	None

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	MWC,745 ft msl	Distance from Accident Site:	2 Nautical Miles
Observation Time:	15:45 Local	Direction from Accident Site:	325°
Lowest Cloud Condition:		Visibility	7 miles
Lowest Ceiling:	Overcast / 12000 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	10 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	330°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29.84 inches Hg	Temperature/Dew Point:	11°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ition	
Departure Point:	Milwaukee, WI (MWC)	Type of Flight Plan Filed:	None
Destination:	Milwaukee, WI (MWC)	Type of Clearance:	VFR
Departure Time:	15:31 Local	Type of Airspace:	Class D

Airport Information

Airport:	Lawrence J. Timmerman MWC	Runway Surface Type:	
Airport Elevation:	745 ft msl	Runway Surface Condition:	
Runway Used:		IFR Approach:	None
Runway Length/Width:		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:	

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Administrative Information

Investigator In Charge (IIC): FOX, ANDREW

Additional Participating Persons: Tim Derner; Federal Aviation Administration - Milwaukee FSDO; Milwaukee, WI Gregory Erikson; Textron Lycoming; Wayne, IL

Original Publish Date: April 15, 2003

Last Revision Date: Investigation Class: Class

Note: https://data.ntsb.gov/Docket?ProjectID=54368

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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