

Brief of Accident

Adopted 09/13/2012

WPR10FA448  
File No. 29999                      09/02/2010                      Redwood City, CA                      Aircraft Reg No. N832B                      Time (Local): 11:51 PDT

Make/Model: Beech / 65  
Engine Make/Model: Lycomin / IGSO-480-A1B  
Aircraft Damage: Substantial  
Number of Engines: 2  
Operating Certificate(s): None  
Type of Flight Operation: Personal  
Reg. Flight Conducted Under: Part 91: General Aviation

	Fatal	Serious	Minor/None
Crew	1	0	0
Pass	2	0	0

Last Depart. Point: San Carlos, CA  
Destination: Santa Clara, CA  
Airport Proximity: Off Airport/Airstrip

Condition of Light: Day  
Weather Info Src: Weather Observation Facility  
Basic Weather: Visual Conditions  
Lowest Ceiling: None  
Visibility: 10.00 SM  
Wind Dir/Speed: 350 / 007 Kts  
Temperature (°C): 29  
Precip/Obscuration: No Obscuration; No Precipitation

Pilot-in-Command                      Age: 73

Flight Time (Hours)

Certificate(s)/Rating(s)  
Airline Transport; Flight Instructor; Multi-engine Land; Single-engine Land

Total All Aircraft: 18000  
Last 90 Days: Unk/Nr  
Total Make/Model: 6000  
Total Instrument Time: Unk/Nr

Instrument Ratings

\*\*\* Note: NTSB investigators either traveled in support of this investigation or conducted a significant amount of investigative work without any travel, and used data obtained from various sources to prepare this aircraft accident report. \*\*\*

Shortly after takeoff for a repositioning flight for the airplane's upcoming annual inspection, numerous witnesses, including the two air traffic controllers, reported observing the airplane climbing out normally until it was about 1/2 mile beyond the runway. The witnesses stated that the airplane then underwent a short series of attitude excursions, rolled right, and descended steeply into a lagoon.

All radio communications between the airplane and the air traffic controllers were normal. Ground-based radar tracking data indicated that the airplane's climb to about 500 feet was normal and that it was airborne for about 40 seconds. Postaccident examination of the airframe, systems, and engines did not reveal any mechanical failures that would have precluded continued normal operation. Damage to both engines' propeller blades suggested low or moderate power at the time of impact; however, the right propeller blades exhibited less damage than the left. The propeller damage, witness-observed airplane dynamics, and the airplane's trajectory were consistent with a loss of power in the right engine and a subsequent loss of control due to airspeed decay below the minimum control speed (referred to as VMC). Although required by the Federal Aviation Administration (FAA)-approved Airplane Flight Manual, no evidence of a cockpit placard to designate the single engine operating speeds, including VMC, was found in the wreckage. The underlying reason for the loss of power in the right engine could not be determined.

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The airplane's certification basis (Civil Air Regulation [CAR] 3) did not require either a red radial line denoting VMC or a blue radial line denoting the single engine climb speed (VYSE) on the airspeed indicators; no such markings were observed on the airspeed indicators in the wreckage. Those markings were only mandated for airplanes certificated under Federal Aviation Regulation Part 23, which became effective about 3 years after the accident airplane was manufactured. Neither the Federal Aviation Administration (FAA) nor the airplane manufacturer mandated or recommended such VMC or VYSE markings on the airspeed indicators of the accident airplane make and model. In addition, a cursory search did not reveal any such retroactive guidance for any twin-engine airplane models certificated under CAR 3. Follow-up communication from the FAA Small Airplane Directorate stated that the FAA has "not discussed this as a possible retroactive action... Our take from the accident studies is that because of the accident record with light/reciprocating engine twins, the insurance industry has restricted them to a select group of pilot/owners..."

Toxicology testing revealed evidence consistent with previous use of marijuana by the pilot; however, it was not possible to determine when that usage occurred or whether the pilot might have been impaired by its use during the accident flight.

Updated at Sep 13 2012 6:39AM

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OCCURRENCES

Enroute-climb to cruise - Loss of engine power (partial)  
Enroute-climb to cruise - Loss of control in flight  
Uncontrolled descent - Collision with terr/obj (non-CFIT)

FINDINGS

Aircraft-Aircraft power plant-Engine (reciprocating)-(general)-Malfunction - C  
Personnel issues-Task performance-Use of equip/info-Aircraft control-Pilot - C  
Aircraft-Aircraft oper/perf/capability-Performance/control parameters-Airspeed-Not attained/maintained - C  
Aircraft-Aircraft oper/perf/capability-Performance/control parameters-Engine out control-Incorrect use/operation  
Aircraft-Aircraft systems-Indicating/recording systems-Instrument panel -Related operating info - F  
Personnel issues-Physical-Impairment/incapacitation-Illicit drug-Pilot  
Organizational issues-Support/oversight/monitoring-Oversight-(general)-FAA/Regulator - F

Findings Legend: (C) = Cause, (F) = Factor

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

A loss of power in the right engine for undetermined reasons and the pilot's subsequent failure to maintain adequate airspeed, which resulted in a loss of control. Contributing to the loss of control was the regulatory certification basis of the airplane that does not require airspeed indicator markings that are critical to maintaining airplane control with one engine inoperative.