



Aviation Investigation Final Report

Location: Hyannis, Massachusetts Accident Number: NYC06CA195

Date & Time: August 5, 2006, 12:50 Local Registration: N7533F

Aircraft: Champion 7KCAB Aircraft Damage: Substantial

Defining Event: 1 Minor

Flight Conducted Under: Part 91: General aviation - Banner tow

Analysis

According to the pilot of the Champion 7KCAB, he performed a preflight inspection of the airplane, and estimated the fuel level by observing the fuel gauges, checking the fuel computer, and "sticking [his] finger in the tank." He did not visually check the amount of fuel in the fuel tanks. The pilot then departed on a banner towing flight, and after 40 minutes of flight time the engine lost total power. The pilot subsequently performed a forced landing to the water below, resulting in substantial damage to the airplane. Examination of the fuel tanks after the airplane was recovered from the water revealed that the right tank was empty, and the left tank contained about 1/8 inch of liquid spread across the bottom of the tank. Following the accident, the pilot learned that during the previous flight the fuel computer had been reset to indicate full fuel. Following that flight, the airplane was not serviced with fuel.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot's inadequate preflight inspection, which resulted in fuel exhaustion and a subsequent total loss of engine power.

Findings

Occurrence #1: LOSS OF ENGINE POWER(TOTAL) - NONMECHANICAL

Phase of Operation: CRUISE

Findings

1. FLUID, FUEL - STARVATION/EXHAUSTION

2. (C) AIRCRAFT PREFLIGHT - INADEQUATE - PILOT IN COMMAND

Occurrence #2: FORCED LANDING

Phase of Operation: EMERGENCY DESCENT/LANDING

Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER

Phase of Operation: EMERGENCY DESCENT/LANDING

Findings

3. TERRAIN CONDITION - WATER

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Factual Information

According to the pilot of the Champion 7KCAB, he performed a preflight inspection of the airplane, and estimated the fuel level by observing the fuel gauges, checking the fuel computer, and "sticking [his] finger in the tank." He did not visually check the amount of fuel in the fuel tanks. The pilot then departed on a banner towing flight, and after 40 minutes of flight time the engine lost total power. The pilot subsequently performed a forced landing to the water below, resulting in substantial damage to the airplane. Examination of the fuel tanks after the airplane was recovered from the water revealed that the right tank was empty, and the left tank contained about 1/8 inch of liquid spread across the bottom of the tank. Following the accident, the pilot learned that during the previous flight the fuel computer had been reset the to indicate full fuel. Following that flight, the airplane was not serviced with fuel.

Pilot Information

Certificate:	Commercial	Age:	27,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	
Instructor Rating(s):		Toxicology Performed:	No
Medical Certification:	Class 1	Last FAA Medical Exam:	June 1, 2006
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	1140 hours (Total, all aircraft), 120 hours (Total, this make and model), 177 hours (Last 90 days, all aircraft), 54 hours (Last 30 days, all aircraft)		

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Aircraft and Owner/Operator Information

Aircraft Make:	Champion	Registration:	N7533F
Model/Series:	7KCAB	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	273-70
Landing Gear Type:	Tailwheel	Seats:	
Date/Type of Last Inspection:		Certified Max Gross Wt.:	
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	Lycoming
ELT:		Engine Model/Series:	10-320
Registered Owner:	Dylan Aviation Inc.	Rated Power:	
Operator:		Operating Certificate(s) Held:	None

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:		Visibility		
Lowest Ceiling:		Visibility (RVR):		
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/	
Wind Direction:		Turbulence Severity Forecast/Actual:	/	
Altimeter Setting:		Temperature/Dew Point:		
Precipitation and Obscuration:				
Departure Point:	Pylmouth, MA (PYM)	Type of Flight Plan Filed:	None	
Destination:	(PYM)	Type of Clearance:	None	
Departure Time:		Type of Airspace:		

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Wreckage and Impact Information

Crew Injuries:	1 Minor	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	
Total Injuries:	1 Minor	Latitude, Longitude:	41.638332,-70.276664

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Administrative Information

Investigator In Charge (IIC):Muzio, DavidAdditional Participating Persons:Muzio, DavidOriginal Publish Date:November 29, 2006Last Revision Date:Investigation Class:Investigation Class:ClassNote:This accident report documents the factual circumstances of this accident as described to the NTSB.Investigation Docket:https://data.ntsb.gov/Docket?ProjectID=64275

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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