



National Transportation Safety Board Aviation Accident Final Report

Location:	Eagleville, TN	Accident Number:	ATL05CA056
Date & Time:	03/03/2005, 2100 CST	Registration:	N4024B
Aircraft:	Bellanca 17-30A	Aircraft Damage:	Destroyed
Defining Event:		Injuries:	1 Minor
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

The flight was cruising at 3,000 feet approximately 15 nautical miles north of Bomar Field - Shelbyville Municipal Airport, Shelbyville, Tennessee, when the engine sputtered and lost power. The pilot stated he moved the fuel selector from the auxiliary fuel tank to the right main fuel tank, established glide airspeed, and reported the loss of engine power to the Nashville air traffic control tower. The pilot stated he tried to find a road or clearing for landing, but he could not distinguish the terrain in the darkness. The pilot glided the airplane toward a dark area, then turned on the landing light and immediately saw treetops. The airplane collided with the trees and the ground. The pilot reported no mechanical malfunction with the airplane. He stated he had planned to change the selected fuel tank in five or ten minutes, and he had inadvertently allowed the auxiliary tank to run out of fuel before switching to a tank containing fuel. The elevation at the accident site was approximately 830 feet.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot's mismanagement of the fuel supply by his failure to switch the fuel selector position, which resulted in a loss of engine power due to fuel starvation.

Findings

Occurrence #1: LOSS OF ENGINE POWER(TOTAL) - NONMECHANICAL
Phase of Operation: CRUISE

Findings

1. (C) FLUID,FUEL - STARVATION
2. (C) FUEL MANAGEMENT - IMPROPER - PILOT IN COMMAND
3. (C) FUEL TANK SELECTOR POSITION - IMPROPER - PILOT IN COMMAND

Occurrence #2: FORCED LANDING
Phase of Operation: EMERGENCY DESCENT/LANDING

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

Findings

4. OBJECT - TREE(S)
5. LIGHT CONDITION - NIGHT

Factual Information

Pilot Information

Certificate:	Private	Age:	29, Male
Airplane Rating(s):	Single-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	None	Second Pilot Present:	
Instructor Rating(s):		Toxicology Performed:	No
Medical Certification:	Class 3 Without Waivers/Limitations	Last Medical Exam:	08/23/2004
Occupational Pilot:		Last Flight Review or Equivalent:	10/13/2003
Flight Time:	220 hours (Total, all aircraft), 152 hours (Total, this make and model), 179 hours (Pilot In Command, all aircraft), 37 hours (Last 90 days, all aircraft), 20 hours (Last 30 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	Bellanca	Registration:	N4024B
Model/Series:	17-30A	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	75-30750
Landing Gear Type:	Retractable - Tricycle	Seats:	
Date/Type of Last Inspection:	04/08/2004, Annual	Certified Max Gross Wt.:	
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	Continental
ELT:	Installed, not activated	Engine Model/Series:	IO-520 K
Registered Owner:	Joe Kendall	Rated Power:	300 hp
Operator:	Joseph Trent Kendall	Air Carrier Operating Certificate:	None

Meteorological Information and Flight Plan

Observation Facility, Elevation:	KBNA	Observation Time:	2053 CST
Distance from Accident Site:		Condition of Light:	Night
Direction from Accident Site:		Conditions at Accident Site:	Visual Conditions
Lowest Cloud Condition:	Clear	Temperature/Dew Point:	7°C / -4°C
Lowest Ceiling:	None	Visibility	10 Miles
Wind Speed/Gusts, Direction:		Visibility (RVR):	
Altimeter Setting:	30.08 inches Hg	Visibility (RVV):	
Precipitation and Obscuration:			
Departure Point:	Nashville, TN (KJWN)	Type of Flight Plan Filed:	None
Destination:	Shelbyville, TN (KSYI)	Type of Clearance:	VFR
Departure Time:	2035 CST	Type of Airspace:	Class G

Airport Information

Airport:	Bomar Field - Shelbyville Muni (KSYI)	Runway Surface Type:	
Airport Elevation:	800 ft	Runway Surface Condition:	
Runway Used:	18	IFR Approach:	None
Runway Length/Width:		VFR Approach/Landing:	

Wreckage and Impact Information

Crew Injuries:	1 Minor	Aircraft Damage:	Destroyed
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Minor		

Administrative Information

Investigator In Charge (IIC):	Catherine E Gagne	Adopted Date:	06/08/2005
Additional Participating Persons:	Larry Payne; FAA - Nashville FSDO - 03; Nashville, TN		
Publish Date:			
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.		
Investigation Docket:	NTSB accident and incident dockets serve as permanent archival information for the NTSB's investigations. Dockets released prior to June 1, 2009 are publicly available from the NTSB's Record Management Division at pubinq@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .		

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