



Aviation Investigation Final Report

Location: Atchison, Kansas Accident Number: CEN10LA281

Date & Time: May 29, 2010, 10:30 Local **Registration:** N76287

Aircraft: Cessna 140 Aircraft Damage: Substantial

Defining Event: Loss of engine power (total) **Injuries:** 1 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

During takeoff the airplane's engine suddenly lost power. The pilot applied carburetor heat and switched fuel tanks; however, the engine did not restart. The pilot elected to conduct a forced landing along a road. During the forced landing, the airplane sustained structural damage. An examination of the airplane and engine was conducted; however, no abnormalities were found with either the airframe or engine that could account for the loss of engine power. While weather conditions for carburetor icing were noted as "moderate or serious icing - cruise or descent power range" at the time of the accident, the investigation was unable to determine the cause of the power loss.

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.

Findings

Aircraft (general) - Not specified

Environmental issues Conducive to carburetor icing - Not specified

Factual Information

History of Flight

Takeoff	Loss of engine power (total) (Defining event)
Landing	Collision during takeoff/land

On May 29, 2010, about 1030 central daylight time, a single-engine Cessna 140 airplane, N76287, received substantial damage after a forced landing following a loss of engine power shortly after takeoff from the Amelia Earhart Airport (K59), Atchison, Kansas. The commercial rated pilot, sole occupant, was not injured. The airplane was registered to and operated by a private individual. Day visual meteorological conditions prevailed and no flight plan was filed for the 14 Code of Federal Regulations Part 91 personal flight.

In a telephone interview with the pilot, he stated that he had just departed K59, when the engine "just quit." He stated that he applied carburetor heat, and switched (fuel) tanks, to no avail. He then elected to conduct a force landing on a nearby road. During the hard landing the airplane's landing gear collapsed, and the airplane impacted and came to rest in a ditch.

An examination of the airplane was conducted by a Federal Aviation Administration (FAA) inspector. The inspector reported that fuel was visible in the left wing fuel tank; however, the amount of fuel in right wing fuel tank could not be verified, due to the way the airplane was sitting without its landing gear. Fuel sumped from each tank appeared clean and free of contaminates. Additionally, fuel was found in the engine's carburetor. The engine was rotated by hand and continuity thought the engine was verified. Both left and right magneto's appeared to function properly.

A review of the information found on a Carburetor Icing Probability Chart; and given the atmospheric conditions prevailing during take-off, revealed that the airplane was operating within the "moderate or serious icing - cruise or descent power" range.

A reason for the loss of engine power was not determined.

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Pilot Information

Certificate:	Commercial	Age:	66,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 With waivers/limitations	Last FAA Medical Exam:	April 10, 2009
Occupational Pilot:	No Last Flight Review or Equivalent:		
Flight Time:	1379 hours (Total, all aircraft), 610 hours (Total, this make and model), 1379 hours (Pilot In Command, all aircraft), 26 hours (Last 90 days, all aircraft), 3 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N76287
Model/Series:	140	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	10701
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	May 10, 2009 Annual	Certified Max Gross Wt.:	
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	3603 Hrs at time of accident	Engine Manufacturer:	CONT MOTOR
ELT:	C91A installed, activated, did not aid in locating accident	Engine Model/Series:	C85 SERIES
Registered Owner:	On file	Rated Power:	85 Horsepower
Operator:	On file	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:	KSTJ	Distance from Accident Site:	16 Nautical Miles
Observation Time:	10:53 Local	Direction from Accident Site:	300°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	6 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	149°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	29.93 inches Hg	Temperature/Dew Point:	27°C / 13°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Atchison, KS (K59)	Type of Flight Plan Filed:	Unknown
Destination:	Lee's Summit, MO (KLXT)	Type of Clearance:	None
Departure Time:		Type of Airspace:	

Airport Information

Airport:	Amelia Earhart Airport K59	Runway Surface Type:	Asphalt
Airport Elevation:		Runway Surface Condition:	
Runway Used:	16	IFR Approach:	None
Runway Length/Width:	3000 ft / 48 ft	VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	39.559658,-95.129821(est)

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Administrative Information

Investigator In Charge (IIC): Hatch, Craig

Additional Participating Persons:

Original Publish Date: August 12, 2010

Last Revision Date:
Investigation Class: Class

Note:

Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=76178

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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