



National Transportation Safety Board Aviation Accident Data Summary

Location:	Atlantic City, NJ	Accident Number:	ERA14LA141
Date & Time:	03/04/2014, 1650 EST	Registration:	N1449H
Aircraft:	PIPER PA-28-161	Injuries:	1 Minor
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

The pilot said that, before departure, he cleared “minor snow accumulation” from the bottom of the engine compartment. The pilot performed the preflight inspection, engine start, taxi, run-up, and before takeoff checks in accordance with the applicable checklists. The engine accelerated normally during the takeoff roll with a “slight hesitation” at 2,200 to 2,300 rpm as the takeoff continued. When the airplane was at 70 knots and over the departure end of the runway, the engine experienced a partial loss of power. Rather than attempt to return to the runway or land straight ahead to wooded terrain, the pilot chose to perform a forced landing to the airport perimeter road. The airplane’s left wing struck a tree and a fence and then separated from the airplane, and the airplane then impacted the road and came to rest inverted. Examination of the airplane revealed no preimpact mechanical anomalies, and, during a test run, the engine started immediately, accelerated smoothly, and ran without interruption through several rpm changes. The magnetos were tested and functioned as designed.

Flight Events

Initial climb - Loss of engine power (partial)
Emergency descent - Off-field or emergency landing
Emergency descent - Collision with terr/obj (non-CFIT)

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: A partial loss of engine power at takeoff for reasons that could not be determined during a postaccident examination or engine test run.

Findings

Not determined-Not determined-(general)-(general)-Unknown/Not determined - C

Pilot Information

Certificate:	Airline Transport; Commercial	Age:	36
Airplane Rating(s):	Single-engine Land	Instrument Rating(s):	Airplane; Helicopter
Other Aircraft Rating(s):	Helicopter	Instructor Rating(s):	None
Flight Time:	3245 hours (Total, all aircraft), 46 hours (Total, this make and model), 2200 hours (Pilot In Command, all aircraft), 15 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	PIPER	Registration:	N1449H
Model/Series:	PA-28-161	Engines:	1 Reciprocating
Operator:	FAA FLYING CLUB INC	Engine Manufacturer:	Lycoming
Air Carrier Operating Certificate:	None	Engine Model/Series:	O-320
Flight Conducted Under:	Part 91: General Aviation - Personal		

Meteorological Information and Flight Plan

Observation Facility, Elevation:	ACY, 75 ft msl	Weather Information Source:	Weather Observation Facility
Conditions at Accident Site:	Visual Conditions	Lowest Ceiling:	None
Condition of Light:	Day	Wind Speed/Gusts, Direction:	Calm
Temperature:	-4° C / -9° C	Visibility	10 Miles
Precipitation and Obscuration:	No Precipitation		
Departure Point:	Atlantic City, NJ (ACY)	Destination:	PHILADELPHIA, PA (PNE)

Airport Information

Airport:	ATLANTIC CITY INTL (ACY)	Runway Surface Type:	Asphalt
Runway Used:	13	Runway Surface Condition:	Dry
Runway Length/Width:	10000 ft / 150 ft		

Wreckage and Impact Information

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

Administrative Information

Investigator In Charge (IIC):	Brian C Rayner	Adopted Date:	04/27/2015
Investigation Docket:	http://dms.nts.gov/pubdms/search/dockList.cfm?mKey=88874		

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