



National Transportation Safety Board Aviation Accident Data Summary

Location:	WILDWOOD, NJ	Accident Number:	NYC00LA214
Date & Time:	08/01/2000, 1430 EDT	Registration:	N6195Z
Aircraft:	Piper PA-25	Injuries:	1 None
Flight Conducted Under:	Part 91: General Aviation -		

Analysis

The pilot had performed a local banner-towing flight and after 45 minutes he decided to return to the airport. While en route, the pilot advanced the throttle to initiate a climb; however, he got no response from the engine. The engine began losing power, and smoke appeared from under the cowling. The oil temperature gauge was approaching red line speed, and the RPM gauge was decreasing; however, the oil pressure remained constant at 80 psi. The pilot performed an emergency landing in a field, and after touchdown, the airplane struck a tree with its right wing. Examination of the engine revealed a hole burned through the top of the #3 cylinder, consistent with detonation. Advisory Circular AC65-12A stated that detonation can burn a hole completely through a piston.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be:
The partial loss of power caused by detonation of the #3 piston.

Findings

Occurrence #1: LOSS OF ENGINE POWER(PARTIAL) - MECH FAILURE/MALF
Phase of Operation: CRUISE

Findings

1. (C) MISC,ENGINE PRE-IGNITION AND/OR DETONATION

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

Occurrence #3: ON GROUND/WATER COLLISION WITH OBJECT
Phase of Operation: LANDING - ROLL

Findings

2. OBJECT - TREE(S)

Pilot Information

Certificate:	Commercial	Age:	32
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Instrument Rating(s):	Airplane
Other Aircraft Rating(s):	None	Instructor Rating(s):	Airplane Single-engine; Instrument Airplane
Flight Time:	389 hours (Total, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Piper	Registration:	N6195Z
Model/Series:	PA-25 PA-25	Engines:	1 Reciprocating
Operator:	PARAMOUNT AIR SERVICE	Engine Manufacturer:	Lycoming
Operating Certificate(s) Held:	None	Engine Model/Series:	O-320
Flight Conducted Under:	Part 91: General Aviation -		

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	WWD, 23 ft msl	Weather Information Source:	Weather Observation Facility
Lowest Ceiling:	None / 0 ft agl	Wind Speed/Gusts, Direction:	9 knots / , 160°
Temperature:	29° C	Visibility	10 Miles
Precipitation and Obscuration:			
Departure Point:	GREEN CREEK, NJ (JY04)	Destination:	

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Latitude, Longitude:			

Administrative Information

Investigator In Charge (IIC):	ROBERT HANCOCK	Adopted Date:	05/08/2001
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 pubinquiry@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .		

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