



National Transportation Safety Board Aviation Accident Data Summary

Location:	ORLANDO, FL	Accident Number:	MIA99LA073
Date & Time:	02/02/1999, 2210 EST	Registration:	N5528J
Aircraft:	Piper PA-32-260	Injuries:	2 Serious
Flight Conducted Under:	Part 91: General Aviation - Business		

Analysis

The pilot stated that while climbing after takeoff the engine lost power. He turned back to the departure airport. Witnesses observed the aircraft descending rapidly in a left turn and impact the runway with the left wing and nose area of the aircraft. The aircraft caught fire, slid down the runway inverted, and came to rest. The pilot and passenger exited the aircraft through the main door. Post crash examination of the engine showed 9 of 12 cam followers were broken due to overstress. No foreign objects were found in the engine and no other evidence of failure or malfunction in the engine were found. Weight and balance calculations showed the aircraft was about 396 pounds over the maximum allowable takeoff weight.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: A loss of engine power due to an engine assembly overload for undetermined reasons. A related factor was the pilot exceeded the airplane's maximum allowable weight.

Findings

Occurrence #1: LOSS OF ENGINE POWER
Phase of Operation: CLIMB - TO CRUISE

Findings

1. ENGINE ASSEMBLY, OTHER - OVERLOAD
2. (C) REASON FOR OCCURRENCE UNDETERMINED

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

Occurrence #3: LOSS OF CONTROL - IN FLIGHT
Phase of Operation: DESCENT - EMERGENCY

Findings

3. (C) AIRCRAFT CONTROL - NOT MAINTAINED - PILOT IN COMMAND
4. (F) AIRCRAFT WEIGHT AND BALANCE - EXCEEDED - PILOT IN COMMAND

Occurrence #4: IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation: DESCENT - UNCONTROLLED

Findings

5. TERRAIN CONDITION - RUNWAY

Pilot Information

Certificate:	Private	Age:	27
Airplane Rating(s):	Single-engine Land	Instrument Rating(s):	Airplane
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:	645 hours (Total, all aircraft), 525 hours (Pilot In Command, all aircraft), 190 hours (Last 90 days, all aircraft), 60 hours (Last 30 days, all aircraft), 2 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Piper	Registration:	N5528J
Model/Series:	PA-32-260 PA-32-260	Engines:	1 Reciprocating
Operator:	TROPICAL AIRCRAFT	Engine Manufacturer:	Lycoming
Operating Certificate(s) Held:	None	Engine Model/Series:	O-540-E4B5
Flight Conducted Under:	Part 91: General Aviation - Business		

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Night/Dark
Observation Facility, Elevation:	MCO, 96 ft msl	Weather Information Source:	Weather Observation Facility
Lowest Ceiling:	None / 0 ft agl	Wind Speed/Gusts, Direction:	4 knots / , 240°
Temperature:	19° C	Visibility	8 Miles
Precipitation and Obscuration:			
Departure Point:	(MCO)	Destination:	FORT LAUDERDALE, FL (FXE)

Airport Information

Airport:	ORLANDO INTERNATIONAL (MCO)	Runway Surface Type:	Concrete
Runway Used:	17	Runway Surface Condition:	Dry
Runway Length/Width:	10000 ft / 150 ft		

Wreckage and Impact Information

Crew Injuries:	1 Serious	Aircraft Damage:	Destroyed
Passenger Injuries:	1 Serious	Aircraft Fire:	On-Ground
Ground Injuries:	N/A	Aircraft Explosion:	None
Latitude, Longitude:			

Administrative Information

Investigator In Charge (IIC): JEFFREY L KENNEDY

Adopted Date: 08/03/2000

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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