



National Transportation Safety Board Aviation Accident Final Report

Location:	JACKSON, MI	Accident Number:	CHI82FA096
Date & Time:	03/23/1982, 0930 CST	Registration:	N37174
Aircraft:	CESSNA 414	Aircraft Damage:	Destroyed
Defining Event:		Injuries:	2 Serious
Flight Conducted Under:	Part 91: General Aviation -		

Analysis

AT APPROXIMATELY 90K AFTER LIFTOFF FROM A TOUCH & GO THE COPILOT, WHO WAS FLYING FROM THE LEFT SEAT, INDICATED PROBLEMS WITH THE RIGHT ENG. THE PLT HAD BEEN OBSERVING TRUCKS ON THE RIGHT SIDE OF THE RWY. HE STATED THEY COULD HAVE SET IT BACK DOWN EXCEPT HE THOUGHT THEY MIGHT SWERVE INTO THE TRUCKS. HE WAS NOT SPECIFICALLY LOOKING AT THE INSTRUMENTS BECAUSE OF THE TRUCKS. HE TOOK CONTROL & THE ACFT SETTLED ADJACENT TO THE RWY & BURST INTO FLAMES. INSPECTION OF THE RIGHT ENG REVEALED ALL BUT ONE OF THE 12 SPARK PLUGS WERE SOOTY. THE PLUGS WERE INSTALLED IN A NEW ENGINE & THE ENG OBTAINED TAKEOFF RPM.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

Findings

Occurrence #1: LOSS OF ENGINE POWER
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

1. (C) REASON FOR OCCURRENCE UNDETERMINED

Occurrence #2: IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

2. (C) FLIGHT/NAVIGATION INSTRUMENT(S) - INATTENTIVE - PILOT IN COMMAND

Factual Information

Pilot Information

Certificate:	Airline Transport; Flight Instructor	Age:	30, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Unknown
Other Aircraft Rating(s):		Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	Airplane Multi-engine; Airplane Single-engine	Toxicology Performed:	
Medical Certification:	Class 1 Valid Medical--w/ waivers/lim.	Last FAA Medical Exam:	
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	4500 hours (Total, all aircraft), 57 hours (Total, this make and model), 4500 hours (Pilot In Command, all aircraft), 310 hours (Last 90 days, all aircraft), 7 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N37174
Model/Series:	414 414	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:		Serial Number:	414A0252
Landing Gear Type:	Retractable - Tricycle	Seats:	6
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	6750 lbs
Time Since Last Inspection:	53 Hours	Engines:	2 Reciprocating
Airframe Total Time:	680 Hours	Engine Manufacturer:	CONTINENTAL
ELT:	Installed	Engine Model/Series:	TSIO-520-NB
Registered Owner:	GIMBEL AVIATION, INC.	Rated Power:	310 hp
Operator:		Operating Certificate(s) Held:	On-demand Air Taxi (135)

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	, 0 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	0000	Direction from Accident Site:	0°
Lowest Cloud Condition:	Clear / 0 ft agl	Visibility	10 Miles
Lowest Ceiling:	Unknown / 0 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:	Variable	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	50° C / 0° C
Precipitation and Obscuration:			
Departure Point:	JACKSON, MI (JXN)	Type of Flight Plan Filed:	None
Destination:	JACKSON, MI (JXN)	Type of Clearance:	
Departure Time:	0830	Type of Airspace:	

Airport Information

Airport:	REYNOLDS MUNI (JXN)	Runway Surface Type:	Asphalt
Airport Elevation:	0 ft	Runway Surface Condition:	Dry
Runway Used:	23	IFR Approach:	
Runway Length/Width:	5275 ft / 150 ft	VFR Approach/Landing:	Touch and Go

Wreckage and Impact Information

Crew Injuries:	2 Serious	Aircraft Damage:	Destroyed
Passenger Injuries:	N/A	Aircraft Fire:	On-Ground
Ground Injuries:	N/A	Aircraft Explosion:	On-Ground
Total Injuries:	2 Serious	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	Report Date:	03/23/1983
Additional Participating Persons:		
Publish Date:		
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/ .	

The National Transportation Safety Board (NTSB), established in 1967, is an independent federal agency mandated by Congress through the Independent Safety Board Act of 1974 to investigate transportation accidents, determine the probable causes of the accidents, issue safety recommendations, study transportation safety issues, and evaluate the safety effectiveness of government agencies involved in transportation. The NTSB makes public its actions and decisions through accident reports, safety studies, special investigation reports, safety recommendations, and statistical reviews.

The Independent Safety Board Act, as codified at 49 U.S.C. Section 1154(b), precludes the admission into evidence or use of any part of an NTSB report related to an incident or accident in a civil action for damages resulting from a matter mentioned in the report. A factual report that may be admissible under 49 U.S.C. § 1154(b) is available [here](#).