



Aviation Investigation Final Report

Location: ST PETER, Minnesota Accident Number: CHI89LA008

Date & Time: October 12, 1988, 09:45 Local Registration: N2081V

Aircraft: CESSNA 120 Aircraft Damage: Substantial

Defining Event: 1 Minor

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

THE PLT HAD INTENDED TO MAKE A TOUCH-&-GO LANDING ON A GRASS STRIP, BUT STATED THAT HE CAME IN 'SOMEWHAT HIGH.' HE RPRTD THE ACFT WAS STILL AIRBORNE ABOUT HALFWAY DOWN THE RWY WHEN HE ELECTED TO GO AROUND. HE ATTEMPTED TO ADD POWER, BUT THE ENG 'SPUTTERED & DIED.' THE PLT SAID HE FORCED THE MAIN GEAR ONTO THE RWY & APPLIED BRAKES, BUT WITHIN SECONDS, THE ACFT NOSED OVER. AFTER THE ACDNT, AN EXAM REVEALED THE LEFT MAIN WHEEL HAD BROKEN OFF AT THE AXLE, THEN THE LEFT STRUT DUG INTO THE GROUND & THE ACFT NOSED OVER. THE PLT RPRTD THAT WHEN THE ACFT WAS ON FINAL APCH, HE HAD MOVED THE CARBURETOR HEAT TO OFF. THE TEMP & DEW POINT WERE 43 & 26 DEG, RESPECTIVELY. ACCORDING TO ICING PROBABILITY CHARTS, CONDS WERE CONDUCIVE FOR CARB ICE. EXCEPT FOR SOOT IN THE EXHAUST STACKS & ON THE SPARK PLUGS, NO EVIDENCE OF A PRE-ACDNT MECHANICAL PROBLEM WAS FOUND.

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(TOTAL) - NONMECHANICAL

Phase of Operation: LANDING - ABORTED

Findings

- 1. (F) PLANNED APPROACH IMPROPER PILOT IN COMMAND
- 2. (F) ALTITUDE EXCESSIVE PILOT IN COMMAND
- 3. (C) GO-AROUND DELAYED PILOT IN COMMAND
- 4. (F) WEATHER CONDITION CARBURETOR ICING CONDITIONS
- 5. (C) CARBURETOR HEAT IMPROPER USE OF PILOT IN COMMAND
- 6. (C) FUEL SYSTEM, CARBURETOR ICE

Occurrence #2: FORCED LANDING

Phase of Operation: DESCENT - EMERGENCY

Occurrence #3: HARD LANDING
Phase of Operation: LANDING - ROLL

Findings

7. (F) EMERGENCY PROCEDURE - PERFORMED 8. LANDING GEAR, AXLE - FAILURE, TOTAL

Occurrence #4: NOSE OVER

Phase of Operation: LANDING - ROLL

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Factual Information

Pilot Information

Certificate:	Commercial; Flight instructor	Age:	30,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Right
Other Aircraft Rating(s):	Glider	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Airplane multi-engine; Airplane single-engine; Instrument airplane	Toxicology Performed:	No
Medical Certification:	Class 3 Valid Medical-no waivers/lim.	Last FAA Medical Exam:	October 7, 1987
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	
Flight Time:	2016 hours (Total, all aircraft), 300 hours (Total, this make and model), 1440 hours (Pilot In Command, all aircraft), 195 hours (Last 90 days, all aircraft), 73 hours (Last 30 days, all aircraft), 7 hours (Last 24 hours, all aircraft)		

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Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N2081V
Model/Series:	120 120	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	14314
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	February 26, 1988 Annual	Certified Max Gross Wt.:	1450 lbs
Time Since Last Inspection:	37 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	2923 Hrs	Engine Manufacturer:	CONTINENTAL
ELT:	Installed, not activated	Engine Model/Series:	C-85-12
Registered Owner:	RANDY GOEBEL	Rated Power:	85 Horsepower
Operator:	RANDELL GOEBEL	Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	MKT ,1020 ft msl	Distance from Accident Site:	10 Nautical Miles
Observation Time:	09:53 Local	Direction from Accident Site:	355°
Lowest Cloud Condition:	Clear	Visibility	12 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:	0°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	6°C / -3°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	EDEN PRAIRIE , MN (FCM)	Type of Flight Plan Filed:	None
Destination:	(56Y)	Type of Clearance:	None
Departure Time:	09:20 Local	Type of Airspace:	Class G

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Airport Information

Airport:	ST PETER MUNI 56Y	Runway Surface Type:	Grass/turf
Airport Elevation:	909 ft msl	Runway Surface Condition:	Dry
Runway Used:	18	IFR Approach:	None
Runway Length/Width:	2700 ft / 150 ft	VFR Approach/Landing:	Forced landing;Touch and go

Wreckage and Impact Information

Crew Injuries:	1 Minor	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Minor	Latitude, Longitude:	44.320064,-93.960212(est)

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Administrative Information

Investigator In Charge (IIC):	Mcavoy, E.	
Additional Participating Persons:	D WILLMAN; MINNEAPOLIS , MN	
Original Publish Date:	November 28, 1989	
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=14298	

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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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