



Aviation Investigation Final Report

Location: OSCEOLA, Arkansas Accident Number: FTW93LA225

Date & Time: August 1, 1993, 13:00 Local Registration: N4021C

Aircraft: STINSON 108-3 Aircraft Damage: Substantial

Defining Event: 1 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

DURING THE TAKEOFF INITIAL CLIMB, THE RIGHT HALF OF THE ENGINE COWLING CAME LOOSE. THE PILOT STATED TO THE INVESTIGATOR IN CHARGE THAT HE IMPROPERLY LATCHED THE COWLING ON THE PREFLIGHT. A TURN WAS INITIATED TOWARD THE AIRPORT AND ON A 45 DEGREE ANGLE TO THE RUNWAY THE AIRPLANE STALLED AND IMPACTED THE TERRAIN SHORT OF THE RUNWAY.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: INADVERTENT STALL. FACTORS WERE THE IMPROPER LATCHING OF THE ENGINE COWLING BY THE PILOT AND HIS INADEQUATE PREFLIGHT INSPECTION.

Findings

Occurrence #1: LOSS OF CONTROL - IN FLIGHT

Phase of Operation: MANEUVERING - TURN TO LANDING AREA (EMERGENCY)

Findings

- 1. (F) ENGINE COMPARTMENT NOT SECURED
- 2. (F) AIRCRAFT PREFLIGHT INADEQUATE PILOT IN COMMAND
- 3. PRECAUTIONARY LANDING ATTEMPTED PILOT IN COMMAND
- 4. (C) STALL INADVERTENT PILOT IN COMMAND

Occurrence #2: IN FLIGHT COLLISION WITH TERRAIN/WATER Phase of Operation: DESCENT - UNCONTROLLED

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Factual Information

On August 1, 1993, at approximately 1300 central daylight time, a Stinson 108-3 airplane, N4021C, sustained substantial damage near Osceola, Arkansas, during approach. The private pilot and passenger were not injured. Visual meteorological conditions prevailed for the personal cross country flight.

The Pilot/Operator report submitted to the Safety Board and a personal interview conducted by the investigator in charge revealed the following information. During a cross country flight a routine refueling stop was made at Osceola, Arkansas. As the air speed increased during the initial takeoff climb, the right half of the engine cowling came loose. The pilot observed the engine cowling chaffing against the windshield plexiglass. A 180 degree turn toward the airport was initiated by the pilot. During the approach, the airplane stalled and impacted the terrain short of the runway. The pilot stated that he had checked and filled the engine oil and had improperly latched the cowling during the preflight.

Pilot Information

Certificate:	Private	Age:	22,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Unknown
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medicalno waivers/lim.	Last FAA Medical Exam:	March 15, 1993
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	
Flight Time:	155 hours (Total, all aircraft), 150 hours (Total, this make and model), 155 hours (Pilot In Command, all aircraft)		

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Aircraft and Owner/Operator Information

Aircraft Make:	STINSON	Registration:	N4021C
Model/Series:	108-3 108-3	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	108-5021
Landing Gear Type:	Tailwheel	Seats:	4
Date/Type of Last Inspection:	October 30, 1992 Annual	Certified Max Gross Wt.:	2400 lbs
Time Since Last Inspection:	100 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	1260 Hrs	Engine Manufacturer:	FRANKLIN
ELT:	Installed, activated, did not aid in locating accident	Engine Model/Series:	GA4-165-B3
Registered Owner:	WISSMAN, JOHN C.	Rated Power:	165 Horsepower
Operator:		Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

meteorological informati			
Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:	Scattered / 7000 ft AGL	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:	80°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	35°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:		Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	13:00 Local	Type of Airspace:	Class G

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Airport Information

Airport:	OSCEOLA MUNICIPAL 7M4	Runway Surface Type:	Asphalt
Airport Elevation:	234 ft msl	Runway Surface Condition:	Dry
Runway Used:	18	IFR Approach:	None
Runway Length/Width:	3800 ft / 40 ft	VFR Approach/Landing:	Precautionary landing

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	35.699508,-89.990661(est)

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Administrative Information

Investigator In Charge (IIC): Smith, Joyce

Additional Participating Persons:

Original Publish Date: September 13, 1994

Last Revision Date:

Investigation Class: Class

Note:

Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=18804

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

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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