

Aviation Investigation Final Report

Location:	FAIRFAX, Oklahoma		Accident Number:	FTW89LA003
Date & Time:	October 11, 1988, 11	:30 Local	Registration:	N11191
Aircraft:	CESSNA	140	Aircraft Damage:	Substantial
Defining Event:			Injuries:	1 Serious
Flight Conducted Under:	Part 91: General aviation - Personal			

Analysis

THE PLT REPORTED THAT THE ENGINE LOCKED AND HE MADE A FORCED LANDING IN A MUDDY, PLOWED FIELD. THE AIRPLANE LANDED HARD AND THE PLT RECEIVED A FRACTURE TO THE SKULL JUST ABOVE HIS RIGHT EYE. DURING ENGINE TEARDOWN, THE HEAD FROM THE EXHAUST VALVE ON THE NUMBER ONE CYLINDER WAS FOUND STICKING SIDEWAYS IN THE HEAD OF THE NUMBER ONE PISTON.

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) - MECH FAILURE/MALF Phase of Operation: CRUISE - NORMAL

Findings 1. (C) ENGINE ASSEMBLY, VALVE, EXHAUST - FAILURE, TOTAL 2. (C) POWERPLANT - SEIZED

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

Occurrence #3: HARD LANDING Phase of Operation: LANDING - FLARE/TOUCHDOWN

- Findings 3. (F) TERRAIN CONDITION ROUGH/UNEVEN 4. (F) TERRAIN CONDITION SOFT

Factual Information

Pilot Information

T not information			
Certificate:	Private	Age:	68,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
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 3 Valid Medicalw/ waivers/lim	Last FAA Medical Exam:	December 9, 1987
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	490 hours (Total, all aircraft), 478 hours (Total, this make and model), 440 hours (Pilot In Command, all aircraft), 30 hours (Last 90 days, all aircraft), 10 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N11191
Model/Series:	140 140	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	13007
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	May 21, 1988 Annual	Certified Max Gross Wt.:	1450 lbs
Time Since Last Inspection:	30 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	2055 Hrs	Engine Manufacturer:	CONTINENTAL
ELT:	Installed, not activated	Engine Model/Series:	C-85-12
Registered Owner:	LUDWIG, MAX AND IRMA J	Rated Power:	85 Horsepower
Operator:	MAX D. LUDWIG	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:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	5 knots / 10 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	180°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	26°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	PONCA CITY , OK (PNC)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	11:00 Local	Type of Airspace:	Class G

Airport Information

Airport:		Runway Surface Type:	Dirt
Airport Elevation:	0 ft msl	Runway Surface Condition:	Wet
Runway Used:	0	IFR Approach:	None
Runway Length/Width:	0 ft / 0 ft	VFR Approach/Landing:	Forced landing;Straight-in

Wreckage and Impact Information

Crew Injuries:	1 Serious	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 Serious	Latitude, Longitude:	36.569789,-96.69918(est)

Administrative Information

Investigator In Charge (IIC):	Roth, F.
Additional Participating Persons:	JARRETT MCFARLIN; OKLAHOMA CITY, OK
Original Publish Date:	September 25, 1989
Last Revision Date:	
Investigation Class:	<u>Class</u>
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=22806

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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.