



National Transportation Safety Board Aviation Accident Final Report

Location:	BURNS, OR	Accident Number:	SEA88FA054
Date & Time:	03/01/1988, 1915 PST	Registration:	N5427A
Aircraft:	CESSNA T210N	Aircraft Damage:	Destroyed
Defining Event:		Injuries:	3 Minor
Flight Conducted Under:	Part 91: General Aviation - Business		

Analysis

THE AIRCRAFT ENGINE QUIT DURING CRUISE FLT ON A BRIGHT MOONLIT NIGHT CROSS COUNTRY FLT AT 8000 FT AGL, 28 NM WEST OF BURNS, OR. THE PILOT REVERSED COURSE IN AN EMERGENCY DESCENT AND FOLLOWED A STRAIGHT 50 FT WIDE HWY TOWARD BURNS. AT APPROX 500 FT. AGL THE PILOT OBSERVED THE ROAD WINDING INTO LOW HILLS AND DECIDED TO REVERSE COURSE AGAIN TO LAND ON THE ROAD TO THE WEST. HE WAS UNABLE TO LINE UP WITH THE ROAD DUE TO LOW LEVEL MANEUVERING TO AVOID HILLS. THE AIRCRAFT IMPACTED SOFT DESERT TERRAIN 100 FT. FROM THE ROAD AND NOSED OVER. LAB EXAM OF THE ENGINE CRANKSHAFT REVEALED A SURFACE ORIGIN HIGH CYCLE FATIGUE FRACTURE. THE CRANKSHAFT DID NOT HAVE AD 87-23-08 COMPLIED WITH.

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,CRANKSHAFT - FRACTURED
2. (C) MAINTENANCE,OVERHAUL,MAJOR - IMPROPER - OTHER MAINTENANCE PERSONNEL
3. (C) MAINTENANCE,COMPLIANCE WITH AD - NOT PERFORMED - OTHER MAINTENANCE PERSONNEL

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

Occurrence #3: IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation: MANEUVERING

Findings

4. (F) IN-FLIGHT PLANNING/DECISION - POOR - PILOT IN COMMAND
5. (F) LACK OF RECENT EXPERIENCE IN TYPE OPERATION - PILOT IN COMMAND
6. (F) LIGHT CONDITION - BRIGHT NIGHT
7. (F) PROPER ALIGNMENT - NOT ATTAINED - PILOT IN COMMAND

Factual Information

Pilot Information

Certificate:	Private	Age:	45, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Valid Medical--no waivers/lim.	Last FAA Medical Exam:	09/04/1987
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	1284 hours (Total, all aircraft), 468 hours (Total, this make and model), 1228 hours (Pilot In Command, all aircraft), 9 hours (Last 90 days, all aircraft), 9 hours (Last 30 days, all aircraft), 6 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N5427A
Model/Series:	T210N T210N	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Normal	Serial Number:	21063431
Landing Gear Type:	Retractable - Tricycle	Seats:	6
Date/Type of Last Inspection:	03/01/1988, Annual	Certified Max Gross Wt.:	4000 lbs
Time Since Last Inspection:	6 Hours	Engines:	1 Reciprocating
Airframe Total Time:	700 Hours	Engine Manufacturer:	CONTINENTAL
ELT:	Installed, activated, did not aid in locating accident	Engine Model/Series:	TSIO-520-R
Registered Owner:	EDWARD PHILLIP DIETER	Rated Power:	310 hp
Operator:	EDWARD PHILLIP DIETER	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Night/Bright
Observation Facility, Elevation:	RDM, 3077 ft msl	Distance from Accident Site:	90 Nautical Miles
Observation Time:	1856 PST	Direction from Accident Site:	285°
Lowest Cloud Condition:	Scattered / 4000 ft agl	Visibility	15 Miles
Lowest Ceiling:	None / 0 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	5 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	300°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	4° C / 3° C
Precipitation and Obscuration:			
Departure Point:	BURLEY, ID (BYI)	Type of Flight Plan Filed:	None
Destination:	EUGENE, OR (EUG)	Type of Clearance:	None
Departure Time:	1710 PST	Type of Airspace:	Class G

Wreckage and Impact Information

Crew Injuries:	1 Minor	Aircraft Damage:	Destroyed
Passenger Injuries:	2 Minor	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	3 Minor	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	PRENTISS E MANGUM	Report Date:	06/09/1989
Additional Participating Persons:	ADREAN FOX; HILLSBORO, OR SCOTT BOYLE; ARVADA, CO		
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/ .		

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