



National Transportation Safety Board Aviation Accident Data Summary

Location:	AURORA, IL	Accident Number:	CHI92LA222
Date & Time:	08/01/1992, 1058 CDT	Registration:	N58335
Aircraft:	HUGHES 269C	Injuries:	2 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

THE PILOT FELT A YAW, LOSS OF POWER AND DECREASE IN ROTOR RPM DURING CRUISE. HE TURNED TOWARD HOMEFIELD AND BEGAN A DESCENT. ENROUTE, THE ENGINE LOST POWER COMPLETELY, AND HE LANDED HARD IN AN OPEN FIELD. ENGINE EXAMINATION REVEALED THE CRANKSHAFT SEPARATED AT A FATIGUE FRACTURE THROUGH THE NUMBER FOUR ROD JOURNAL.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be:
FATIGUE FRACTURE OF THE ENGINE CRANKSHAFT RESULTING IN LOSS OF POWER.
FACTORS WERE THE PILOT'S EXCESSIVE DESCENT AND HIS LACK OF TOTAL EXPERIENCE.

Findings

Occurrence #1: LOSS OF ENGINE POWER(PARTIAL) - MECH FAILURE/MALF
Phase of Operation: CRUISE

Findings

1. (C) ENGINE ASSEMBLY,CRANKSHAFT - FATIGUE
2. PRECAUTIONARY LANDING - INITIATED - PILOT IN COMMAND

Occurrence #2: LOSS OF ENGINE POWER(TOTAL) - MECH FAILURE/MALF
Phase of Operation: DESCENT - EMERGENCY

Occurrence #3: HARD LANDING

Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings

3. (F) DESCENT - EXCESSIVE - PILOT IN COMMAND
4. (F) LACK OF TOTAL EXPERIENCE - PILOT IN COMMAND

Pilot Information

Certificate:	Private	Age:	29
Airplane Rating(s):	None	Instrument Rating(s):	None
Other Aircraft Rating(s):	Helicopter	Instructor Rating(s):	None
Flight Time:	109 hours (Total, all aircraft), 60 hours (Total, this make and model), 56 hours (Pilot In Command, all aircraft), 40 hours (Last 90 days, all aircraft), 25 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	HUGHES	Registration:	N58335
Model/Series:	269C 269C	Engines:	1 Reciprocating
Operator:	GREAT LAKES HELICOPTER SERVICE	Engine Manufacturer:	LYCOMING
Operating Certificate(s) Held:	On-demand Air Taxi (135)	Engine Model/Series:	HIO-360-D1A
Flight Conducted Under:	Part 91: General Aviation - Personal		

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	ARR, 707 ft msl	Weather Information Source:	Weather Observation Facility
Lowest Ceiling:	None / 0 ft agl	Wind Speed/Gusts, Direction:	7 knots / , 260°
Temperature:	23° C	Visibility	15 Miles
Precipitation and Obscuration:			
Departure Point:	SUGAR GROVE, IL (ARR)	Destination:	(ARR)

Airport Information

Airport:	AURORA MUNICIPAL (ARR)	Runway Surface Type:	N/A
Runway Used:	0	Runway Surface Condition:	
Runway Length/Width:			

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Latitude, Longitude:			

Administrative Information

Investigator In Charge (IIC): J R VALLASTER Adopted Date: 06/30/1993

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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