



National Transportation Safety Board Aviation Accident Data Summary

Location:	WOOD RIVER, AK	Accident Number:	ANC91LA113
Date & Time:	08/01/1991, 2030 AKD	Registration:	N6848V
Aircraft:	MOONEY M-20F	Injuries:	3 None
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

THE PILOT-IN-COMMAND STATED THAT DURING CRUISE FLIGHT THE PROPELLER STOPPED TURNING WITHIN SIX REVOLUTIONS WITHOUT WARNING. HE WAS FORCED TO LAND ON A SAND BAR ON THE WOOD RIVER. DURING THE LANDING THE NOSE GEAR AND RIGHT MAIN GEAR COLLAPSED. EXAMINATION OF THE ENGINE REVEALED THAT THE CONNECTING ROD CAP FROM THE NUMBER 4 CONNECTING ROD HAD FAILED APPROXIMATELY 1/2 INCH FROM THE MATING SURFACE, ABEAM THE HEAD OF THE CONNECTING ROD BOLT.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE FAILURE OF THE NUMBER 4 CYLINDER CONNECTING ROD COP DUE TO FATIGUE. CONTRIBUTING TO THE ACCIDENT WAS THE ROUGH SURFACE OF THE FORCED LANDING AREA.

Findings

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

Findings

1. (C) ENGINE ASSEMBLY,CONNECTING ROD CAP - FATIGUE

Occurrence #2: FORCED LANDING
Phase of Operation: LANDING - ROLL

Findings

2. (F) TERRAIN CONDITION - ROUGH/UNEVEN

Pilot Information

Certificate:	Commercial	Age:	46
Airplane Rating(s):	Single-engine Land; Single-engine Sea	Instrument Rating(s):	None
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:	1408 hours (Total, all aircraft), 400 hours (Total, this make and model), 1260 hours (Pilot In Command, all aircraft), 14 hours (Last 90 days, all aircraft), 6 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	MOONEY	Registration:	N6848V
Model/Series:	M-20F M-20F	Engines:	1 Reciprocating
Operator:	GRIFFIN, HERBERT L., SR.	Engine Manufacturer:	LYCOMING
Operating Certificate(s) Held:	None	Engine Model/Series:	IO-360AIA
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:	, 0 ft msl	Weather Information Source:	Pilot
Lowest Ceiling:	None / 0 ft agl	Wind Speed/Gusts, Direction:	Calm / ,
Temperature:	16° C	Visibility	60 Miles
Precipitation and Obscuration:			
Departure Point:	FAIRBANKS, AK (FAI)	Destination:	

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	2 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Latitude, Longitude:			

Administrative Information

Investigator In Charge (IIC):	George Kobelnyk	Adopted Date:	04/27/1993
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 pubin@ntsb.gov , or at 800-877-6799. Dockets released after this date are available at http://dms.nts.gov/pubdms/ .		

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