



National Transportation Safety Board Aviation Accident Data Summary

Location:	LEPANTO, AR	Accident Number:	MKC87LA115
Date & Time:	06/02/1987, 0800 CDT	Registration:	N4943X
Aircraft:	Ayres S2R600	Injuries:	1 None
Flight Conducted Under:	Part 137: Agricultural		

Analysis

THE PIC HAD TAKEN OFF FOR A LCL AERIAL OPERATION. ENROUTE PIC HAD AN ENGINE FAILURE AND MADE A FORCED LDG IN A MUDDY FIELD. PIC APPLIED BRAKES AND ACFT NOSED OVER. THE EXHAUST ROCKER ARM BOX ON NO. 3 CYLINDER WAS FOUND TO BE CRACKED KEEPING EXHAUST VALVE IN CLOSED POSITION.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

Findings

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

Findings

1. (C) ENGINE ASSEMBLY,ROCKER ARM/TAPPET - CRACKED
2. (F) ENGINE ASSEMBLY,VALVE,INTAKE - JAMMED

Occurrence #2: FORCED LANDING
Phase of Operation: CRUISE

Occurrence #3: NOSE OVER
Phase of Operation: LANDING - ROLL

Findings

3. (C) TERRAIN CONDITION - SOFT

Pilot Information

Certificate:	Commercial	Age:	34
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Instrument Rating(s):	None
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:	6000 hours (Total, all aircraft), 2000 hours (Total, this make and model), 6000 hours (Pilot In Command, all aircraft), 100 hours (Last 90 days, all aircraft), 100 hours (Last 30 days, all aircraft), 6 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Ayres	Registration:	N4943X
Model/Series:	S2R600 S2R600	Engines:	1 Reciprocating
Operator:	HELM FLYING SERVICE	Engine Manufacturer:	P&W
Operating Certificate(s) Held:		Engine Model/Series:	R-1340-AN1
Flight Conducted Under:	Part 137: Agricultural		

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:	7 knots / , 180°
Temperature:	-18° C	Visibility	0 Miles
Precipitation and Obscuration:			
Departure Point:		Destination:	

Wreckage and Impact Information

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

Administrative Information

Investigator In Charge (IIC):	JOHN R HRUBAN	Adopted Date:	05/09/1988
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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