



National Transportation Safety Board Aviation Accident Data Summary

Location:	BUHLER, KS	Accident Number:	CHI93DCQ02
Date & Time:	08/01/1993, 0800 CDT	Registration:	N4864Q
Aircraft:	CESSNA 188	Injuries:	1 None
Flight Conducted Under:	Part 137: Agricultural		

Analysis

THE AGRICULTURAL SPRAY AIRPLANE LOST ENGINE POWER WHILE MANEUVERING OVER CROPS. THE PILOT MADE A FORCED LANDING IN A NEARBY FIELD. EXAMINATION OF THE ENGINE DISCLOSED A FRACTURED CAMSHAFT DRIVE GEAR.

Probable Cause

The National Transportation Safety Board determines the probable cause(s) of this accident to be: the loss of engine power due to a fractured accessory (camshaft) drive gear.

Findings

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

Phase of Operation: MANEUVERING - AERIAL APPLICATION

Findings

1. (C) ACCESSORY DRIVE ASSY,DRIVE GEAR - FRACTURED

Occurrence #2: FORCED LANDING

Phase of Operation: DESCENT - EMERGENCY

Occurrence #3: NOSE OVER

Phase of Operation: LANDING - ROLL

Pilot Information

Certificate:	Commercial	Age:	47
Airplane Rating(s):	Single-engine Land	Instrument Rating(s):	None
Other Aircraft Rating(s):	None	Instructor Rating(s):	None
Flight Time:	10000 hours (Total, all aircraft), 5500 hours (Total, this make and model), 100 hours (Last 90 days, all aircraft), 50 hours (Last 30 days, all aircraft), 5 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	CESSNA	Registration:	N4864Q
Model/Series:	188 188	Engines:	1 Reciprocating
Operator:	WALLACE D. COOK	Engine Manufacturer:	CONTINENTAL
Operating Certificate(s) Held:		Engine Model/Series:	IO-520-D
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:	Unknown
Lowest Ceiling:	None / 0 ft agl	Wind Speed/Gusts, Direction:	Light and Variable / 10 knots, 360°
Temperature:	24° C	Visibility	20 Miles
Precipitation and Obscuration:			
Departure Point:	NICKERSON, KS	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):	THOMAS N SHOOKS	Adopted Date:	08/17/1994
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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