



National Transportation Safety Board Aviation Accident Factual Report

Location:	SATANTA, KS	Accident Number:	CHI97LA193
Date & Time:	07/01/1997, 2030 CDT	Registration:	N10397
Aircraft:	Grumman G-164	Aircraft Damage:	Substantial
Defining Event:		Injuries:	1 None
Flight Conducted Under:	Part 137: Agricultural		

On July 1, 1997, at 2030 central daylight time (cdt), a Grumman G-164, N10397, registered to Satanta Flying Service, Inc., of Satanta, Kansas, was substantially damaged following a partial loss of engine power and subsequent forced landing in a farmer's field. The commercial pilot reported no injuries. The 14 CFR Part 137 aerial application flight was not operating on a flight plan. Visual meteorological conditions prevailed at the time of the accident. The flight departed Satanta, Kansas, at 2025 cdt.

Post accident examination of the airplane by a Federal Aviation Administration principal Maintenance Inspector (PMI), stated that the pilot reported that about two miles from the departure airport the engine backfired and lost power causing an emergency landing. The airplane's fuel system was inspected and the fuel tanks were empty due to rupture in the fuel line caused when the airplane ground looped and settled on the top of the upper wing. The fuel strainer was inspected and held clean aviation 100LL fuel (blue in color). The fuel line was repaired and fuel was added to the wing tanks for the engine test run. The forward spark plugs were removed and cleaned and oil which had run into the cylinders when the airplane was inverted was allowed to drain. The existing propeller was removed and a serviceable propeller installed for the test run on the airplane. The propeller was pulled through to clear all the cylinders of oil. The engine was then motored over with the starter and after several attempts the engine started. The engine ran rough until it burned the remainder of the oil out of the cylinders and warmed up. The engine was then ran at 2100 rpm's and produced 32 inches of manifold pressure. There were no mechanical or backfiring problems discovered during the test run.

The pilot did not submit the required National Transportation Safety Board's form 6120.1/2 under Title 49, Part 830.15.

Pilot Information

Certificate:	Commercial	Age:	40, Male
Airplane Rating(s):	Single-engine Land	Seat Occupied:	Center
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medical--no waivers/lim.	Last FAA Medical Exam:	06/30/1996
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	1600 hours (Total, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Grumman	Registration:	N10397
Model/Series:	G-164 G-164	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Restricted	Serial Number:	70
Landing Gear Type:	Tailwheel	Seats:	1
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	3725 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	P&W
ELT:		Engine Model/Series:	
Registered Owner:	SATANTA FLYING SERVICE	Rated Power:	
Operator:	SATANTA FLYING SERVICE	Operating Certificate(s) Held:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Dusk
Observation Facility, Elevation:	, 0 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	0000	Direction from Accident Site:	0°
Lowest Cloud Condition:	Unknown / 0 ft agl	Visibility	0 Miles
Lowest Ceiling:	Unknown / 0 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	/
Wind Direction:		Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	
Precipitation and Obscuration:			
Departure Point:	(1K9)	Type of Flight Plan Filed:	None
Destination:	(1K9)	Type of Clearance:	None
Departure Time:	2025 CDT	Type of Airspace:	Class G

Airport Information

Airport:	SATANTA MUNICIPAL AIRPORT (1K9)	Runway Surface Type:	Asphalt
Airport Elevation:	2976 ft	Runway Surface Condition:	
Runway Used:	0	IFR Approach:	None
Runway Length/Width:	3250 ft / 30 ft	VFR Approach/Landing:	

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
Total Injuries:	1 None	Latitude, Longitude:	

Administrative Information

Investigator In Charge (IIC):	TODD J CARLSON
Additional Participating Persons:	RONALD E CENTER; WICHITA, KS
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/ .