



National Transportation Safety Board Aviation Accident Factual Report

Location:	BLAKESBURG, IA	Accident Number:	CHI97LA275
Date & Time:	09/01/1997, 1035 CDT	Registration:	N131G
Aircraft:	Bucker Flugzeugbau JUNGMANN	Aircraft Damage:	Substantial
Defining Event:		Injuries:	1 Minor
Flight Conducted Under:	Part 91: General Aviation - Personal		

On September 1, 1997, at 1035 central daylight time (cdt), a Bucker Jungmann, N131G, piloted by a commercially certificated pilot, was substantially damaged during a collision with power lines and the ground during a forced landing approach. The pilot reported a total loss of power while cruising at 2,000 feet mean sea level. Visual meteorological conditions prevailed at the time of the accident. The 14 CFR Part 91 personal flight was not operating on a flight plan. The pilot reported minor injuries. The flight departed Blakesburg, Iowa, at 1025 cdt.

According to the pilot, the "...engine suffered [a] dramatic loss of power..." about 10 minutes after takeoff. He said the engine could not be restarted following the failure. The pilot said he selected the "...best available field..." for the forced landing. He said the airplane struck a power line during the landing approach and nosed down onto the ground.

The North American representative for the engine manufacturer, Letecke Oprauny Maleske (LOM), stated the manager at N131G's departure airport said N131G had aborted a takeoff due to "...engine difficulties..." The representative's statement continues, "...[the] fuel pumps [were] drained, and the engine ran at high RPM, and all seemed to be working fine." A mechanic from the departure airport examined N131G at the accident site. He stated the "...fuel was not contaminated in any way." He said the gascolator had "...less than a teaspoon..." of water in it. His statement is appended to this report.

The on-scene investigation revealed mechanical continuity within the LOM M332AK engine. One magneto was removed and sparked when rotated. The fuselage fuel tank had sustained collision damage and was ruptured. About 1-cup of residual fuel having an odor and color similar to 100LL was found in the tank. Fuel was found in all 4 injector lines. The fuel lines were removed from the fuel injection pump. Fuel drained from the fuel pump at all 4 fuel line attach points. The gascolator contained fuel and about 1-teaspoon of water when examined. The throttle, mixture, and supercharger controls sustained crash damage and were not able to be moved. The throttle was found in the full forward position.

The fuel injection pump could not be properly inspected by facilities in the United States. The Federal Aviation Administration's AAI-100 in Washington, D.C. was asked to have one of the

Agency's Belgium inspectors observe the manufacturer's testing of the pump. The FAA was unable to assist because the engine was not an FAA certified engine. The fuel injection pump was examined at the manufacturer's facility in Malesice, Czech Republic, with the cooperation of the Czech Republic Aviation Authority.

The examination revealed that "The injection pump was securing reliable engine regulation...", according to the Quality Director for the engine manufacturer. A copy of this report is appended to this report.

Pilot Information

Certificate:	Commercial	Age:	47
Airplane Rating(s):	Single-engine Land	Seat Occupied:	Rear
Other Aircraft Rating(s):	Glider	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medical--w/ waivers/lim.	Last FAA Medical Exam:	11/25/1996
Occupational Pilot:		Last Flight Review or Equivalent:	
Flight Time:	1206 hours (Total, all aircraft), 180 hours (Total, this make and model), 1136 hours (Pilot In Command, all aircraft), 13 hours (Last 90 days, all aircraft), 10 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Bucker Flugzeugbau	Registration:	N131G
Model/Series:	JUNGMANN JUNGMANN	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	No
Airworthiness Certificate:	Experimental	Serial Number:	E3B-391
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	10/01/1996, Annual	Certified Max Gross Wt.:	1600 lbs
Time Since Last Inspection:	33 Hours	Engines:	1 Reciprocating
Airframe Total Time:	98 Hours	Engine Manufacturer:	LOM
ELT:	Installed, not activated	Engine Model/Series:	M332AK
Registered Owner:	EUGENE S. SPAINHOUR	Rated Power:	140 hp
Operator:	EUGENE S. SPAINHOUR	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual Conditions	Condition of Light:	Day
Observation Facility, Elevation:	OTM, 845 ft msl	Distance from Accident Site:	10 Nautical Miles
Observation Time:	1035 CDT	Direction from Accident Site:	40°
Lowest Cloud Condition:	Unknown / 0 ft agl	Visibility	3 Miles
Lowest Ceiling:	Broken / 1000 ft agl	Visibility (RVR):	0 ft
Wind Speed/Gusts:	6 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	170°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30 inches Hg	Temperature/Dew Point:	
Precipitation and Obscuration:			
Departure Point:	(5C2)	Type of Flight Plan Filed:	None
Destination:	(5C2)	Type of Clearance:	None
Departure Time:	1025 CDT	Type of Airspace:	Class G

Wreckage and Impact Information

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

Administrative Information

Investigator In Charge (IIC):	FRANK S GATTOLIN
Additional Participating Persons:	BOB ANDERLIK; DES MOINES, IA
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/ .