



Location: Punta Gorda, Florida Accident Number: MIA06LA028

Date & Time: December 10, 2005, 10:00 Local Registration: N535BM

Aircraft: MESTAS FELIX R Velocity LWFG-E Aircraft Damage: Destroyed

Defining Event: 2 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The pilot/builder of the accident airplane stated that the takeoff and initial climb were normal until the airplane reached about 200-300 feet, when the engine began "losing compression." He further stated that the airspeed began to bleed off, so he lowered the nose to maintain 80 knots and turned the airplane back toward the runway. He said that he was unable to reach the runway, so he decided to land in the grass on the airport property. According to the pilot the landing flare and touchdown were normal, but during the rollout the airplane struck a taxiway sign, became airborne, impacted the ground again on the main landing gear, and then came to a sudden stop in a ditch. It then caught fire and was mostly consumed in the flames. According to the pilot/builder, the airplane had a General Motors automobile conversion V-6 engine, and the accident flight was the first flight after the airplane had been built. Prior to the flight only ground taxi operations had been performed. During takeoff on the first and accident flight, the pilot said he noticed the engine temperature gauge needle showing that the engine was operating at a very high temperature. The pilot/builder said that postcrash examination of the engine could not be accomplished because it had been constructed largely of aluminum and the intense heat of the postcrash fire mostly consumed the engine and melted the aluminum.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: A loss of engine power for undetermined reasons.

Findings

Occurrence #1: LOSS OF ENGINE POWER
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings

1. (C) REASON FOR OCCURRENCE UNDETERMINED

Occurrence #2: FORCED LANDING

Phase of Operation: EMERGENCY DESCENT/LANDING

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Occurrence #3: ON GROUND/WATER ENCOUNTER WITH TERRAIN/WATER

Phase of Operation: EMERGENCY LANDING

Findings

2. TERRAIN CONDITION - DITCH

Page 2 of 6 MIA06LA028

Factual Information

On December 10, 2005, about 1000 eastern standard time, a experimental Velocity LWFG-E, N535BM, registered to and operated by a private individual, experienced an in-flight loss of engine power during takeoff from Charlotte County Airport, Punta Gorda, Florida. Visual meteorological conditions prevailed at the time, and no flight plan was filed for the Title 14 CFR Part 91 personal flight. The airplane was destroyed and the private-rated pilot and one passenger were not injured. The flight was originating at the time of the accident.

The pilot stated that the takeoff and initial climb were normal until the airplane reached about 200-300 feet, when the engine began "loosing compression." He further stated that the airspeed began to bleed off, so he lowered the nose to maintain 80 knots and turned the airplane back toward the runway. He said the was unable to reach runway, so he decided to land in the grass on the airport property. According to the pilot the landing flare and touchdown were normal, but during the rollout the airplane struck a taxiway sign, became airborne, impacted the ground again on the main landing gear, and then came to a sudden stop in a ditch. The airplane then caught fire and was mostly consumed in the flames.

The pilot/builder of the accident airplane stated that he built the airplane with an General Motors automobile conversion V-6 engine, and the accident flight was the first flight after the airplane had been built. He stated that prior to the flight only ground taxi operations had been performed with the airplane as a test. He said that during takeoff, he noticed the engine temperature gauge needle displayed the that the engine was operating hotter than usual. According the pilot/builder, postcrash examination of the engine could not be accomplished because the engine had been constructed largely of aluminum and the intense heat of the postcrash fire mostly consumed the engine and the aluminum had melted.

Page 3 of 6 MIA06LA028

Pilot Information

Certificate:	Private	Age:	52,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
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 3	Last FAA Medical Exam:	October 1, 2005
Occupational Pilot:	No	Last Flight Review or Equivalent:	December 1, 2005
Flight Time:	130 hours (Total, all aircraft), 8 hours (Total, this make and model), 15 hours (Last 90 days, all aircraft), 5 hours (Last 30 days, all aircraft), 0 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

MESTAS EELIY D	Pagistration:	N535BM
WESTAST LEIX IX	Registration.	NJJJDIVI
Velocity LWFG-E	Aircraft Category:	Airplane
	Amateur Built:	Yes
	Serial Number:	DM0387
Tricycle	Seats:	4
Unknown	Certified Max Gross Wt.:	2780 lbs
	Engines:	1 Reciprocating
7 Hrs at time of accident	Engine Manufacturer:	General Motors
Installed, not activated	Engine Model/Series:	4.3L
On file	Rated Power:	220 Horsepower
On file	Operating Certificate(s) Held:	None
	Tricycle Unknown 7 Hrs at time of accident Installed, not activated On file	Velocity LWFG-E Aircraft Category: Amateur Built: Serial Number: Tricycle Seats: Unknown Certified Max Gross Wt.: Engines: 7 Hrs at time of accident Installed, not activated Engine Model/Series: On file Operating Certificate(s)

Page 4 of 6 MIA06LA028

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	PGD	Distance from Accident Site:	
Observation Time:	10:05 Local	Direction from Accident Site:	
Lowest Cloud Condition:	Scattered	Visibility	3 miles
Lowest Ceiling:	Broken	Visibility (RVR):	
Wind Speed/Gusts:	5 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	10°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.01 inches Hg	Temperature/Dew Point:	18°C / 14°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Punta Gorda, FL (PGD)	Type of Flight Plan Filed:	None
Destination:	Punta Gorda, FL (PGD)	Type of Clearance:	None
Departure Time:	10:00 Local	Type of Airspace:	

Airport Information

Airport:	Charlotte County Airport PGD	Runway Surface Type:	Asphalt
Airport Elevation:		Runway Surface Condition:	Dry
Runway Used:	03	IFR Approach:	None
Runway Length/Width:	6500 ft / 150 ft	VFR Approach/Landing:	Forced landing

Wreckage and Impact Information

Crew Injuries:	2 None	Aircraft Damage:	Destroyed
Passenger Injuries:		Aircraft Fire:	On-ground
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	26.920278,-81.990554

Page 5 of 6 MIA06LA028

Administrative Information

Investigator In Charge (IIC): Lovell, John

Additional Participating Persons:

Original Publish Date: April 25, 2006

Last Revision Date:

Investigation Class: Class

Note:

Investigation Docket: https://data.ntsb.gov/Docket?ProjectID=62944

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, "accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person" (Title 49 Code of Federal Regulations section 831.4). Assignment of fault or legal liability is not relevant to the NTSB's statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 United States Code section 1154(b)). A factual report that may be admissible under 49 United States Code section 1154(b) is available here.

Page 6 of 6 MIA06LA028