



National Transportation Safety Board Aviation Accident Final Report

Location:	Seabrook, TX	Accident Number:	DFW07CA126
Date & Time:	06/01/2007, 0800 CDT	Registration:	N61R
Aircraft:	Gray Jack Tean Rocket F1	Aircraft Damage:	Substantial
Defining Event:		Injuries:	1 Minor
Flight Conducted Under:	Part 91: General Aviation - Personal		

Analysis

The pilot overran the departure end of the grass runway during a precautionary landing following a partial loss of engine power. The 1,393-hour commercial pilot reported hearing a loud noise while in cruise flight, followed by a partial loss of engine power. The pilot attempted to land the high performance single-engine airplane on a 1,400-foot-long, by 75-foot-wide grass runway. The pilot, who had accumulated a total of 320-hours in the same make and model, reported that he "elected to set the plane down, knowing I would go-off the end of the runway." The homebuilt airplane overran the departure end of the grass runway and collided with trees and terrain. Both wings sustained structural damage. The pilot exited through the canopy with minor injuries. The pilot reported that the 260-horsepower engine had accumulated a total of 265-hours, with 7-hours since its last inspection. The reason for the partial loss of power could not be determined.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The loss of engine power for undetermined reason. A contributing factor was the lack of suitable terrain for the precautionary landing.

Findings

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

Findings

1. PRECAUTIONARY LANDING - ATTEMPTED - PILOT IN COMMAND
2. (C) REASON FOR OCCURRENCE UNDETERMINED

Occurrence #2: OVERRUN

Phase of Operation: EMERGENCY LANDING

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

Phase of Operation: EMERGENCY LANDING

Findings

3. TERRAIN CONDITION - SHORT RUNWAY/LANDING AREA
4. (F) TERRAIN CONDITION - NONE SUITABLE

Factual Information

Pilot Information

Certificate:	Commercial	Age:	68, Male
Airplane Rating(s):	Multi-engine Land; Single-engine Land	Seat Occupied:	Front
Other Aircraft Rating(s):	None	Restraint Used:	Seatbelt, Shoulder harness
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 3 Without Waivers/Limitations	Last Medical Exam:	03/01/2007
Occupational Pilot:		Last Flight Review or Equivalent:	05/01/2007
Flight Time:	1393 hours (Total, all aircraft), 320 hours (Total, this make and model), 12 hours (Last 90 days, all aircraft), 5 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Manufacturer:	Gray Jack	Registration:	N61R
Model/Series:	Tean Rocket F1	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	Yes
Airworthiness Certificate:	Experimental	Serial Number:	70
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	03/01/2007, Annual	Certified Max Gross Wt.:	2000 lbs
Time Since Last Inspection:	7 Hours	Engines:	1 Reciprocating
Airframe Total Time:	265 Hours	Engine Manufacturer:	Lycoming
ELT:	Installed, not activated	Engine Model/Series:	IO-540-C4B5
Registered Owner:	Jack Gray	Rated Power:	260 hp
Operator:	Jack Gray	Air Carrier Operating Certificate:	None

Meteorological Information and Flight Plan

Observation Facility, Elevation:	HOU, 46 ft msl	Observation Time:	0753 CDT
Distance from Accident Site:	14 Nautical Miles	Condition of Light:	Day
Direction from Accident Site:	2°	Conditions at Accident Site:	Visual Conditions
Lowest Cloud Condition:	Few / 2000 ft agl	Temperature/Dew Point:	26°C / 22°C
Lowest Ceiling:	Broken / 25000 ft agl	Visibility	8 Miles
Wind Speed/Gusts, Direction:		Visibility (RVR):	
Altimeter Setting:	29.88 inches Hg	Visibility (RVV):	
Precipitation and Obscuration:			
Departure Point:	LA PORTE, TX (T41)	Type of Flight Plan Filed:	None
Destination:	HONDO, TX (HDO)	Type of Clearance:	None
Departure Time:		Type of Airspace:	

Airport Information

Airport:	ALVIN AIRPARK (6R5)	Runway Surface Type:	Grass/turf
Airport Elevation:	0 ft	Runway Surface Condition:	Wet
Runway Used:	21	IFR Approach:	None
Runway Length/Width:	1420 ft / 75 ft	VFR Approach/Landing:	Straight-in

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		

Administrative Information

Investigator In Charge (IIC):	Leah Yeager	Adopted Date:	07/25/2007
Additional Participating Persons:	Doug Idema; Houston, Texas		
Publish Date:			
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.		
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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