



Aviation Investigation Final Report

Location:	Newport, Vermont	Accident Number:	ERA12CA322
Date & Time:	May 6, 2012, 18:15 Local	Registration:	N9217G
Aircraft:	Cessna 182N	Aircraft Damage:	Substantial
Defining Event:	Hard landing	Injuries:	2 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

According to the pilot, the airplane was about 10 feet above the ground during the approach to landing when it "dropped hard" onto the runway. An eyewitness stated that the wings shook from side to side, the airplane fell to the ground, and the sound of runway impact could be heard. According to marks on the runway, the airplane impacted nose first and then bounced and impacted the runway again. Calculations based on the propeller strike marks associated with the first impact indicated a ground speed of about 38 knots. The impact resulted in substantial damage to the engine firewall. The pilot reported no preimpact malfunctions or anomalies that would have precluded normal operation.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The pilot's failure to maintain adequate airspeed during the approach, which resulted in an aerodynamic stall and hard landing.

Findings

Personnel issues	Incorrect action performance - Pilot
Aircraft	Airspeed - Not attained/maintained

Factual Information

History of Flight

Landing-flare/touchdown	Aerodynamic stall/spin
Landing-flare/touchdown	Hard landing (Defining event)

Pilot Information

Certificate:	Private	Age:	64, 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 With waivers/limitations	Last FAA Medical Exam:	February 17, 2011
Occupational Pilot:	No	Last Flight Review or Equivalent:	July 12, 2010
Flight Time:	591 hours (Total, all aircraft), 14 hours (Total, this make and model), 591 hours (Pilot In Command, all aircraft), 7 hours (Last 90 days, all aircraft), 6 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N9217G
Model/Series:	182N	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	18260757
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	March 23, 2012 Annual	Certified Max Gross Wt.:	2950 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	4376 Hrs as of last inspection	Engine Manufacturer:	CONT MOTOR
ELT:	Installed, not activated	Engine Model/Series:	O-470-R
Registered Owner:	SHERLOCK EQUIPMENT AND LEASING LLC	Rated Power:	230 Horsepower
Operator:	Leading Edge Aviation Northeast	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	EFK,930 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	18:15 Local	Direction from Accident Site:	0°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	6 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	350°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.11 inches Hg	Temperature/Dew Point:	14°C / -7°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Lebanon, NH (LEB)	Type of Flight Plan Filed:	None
Destination:	Newport, VT (EFK)	Type of Clearance:	None
Departure Time:	17:00 Local	Type of Airspace:	

Airport Information

Airport:	Newport State Airport EFK	Runway Surface Type:	Asphalt
Airport Elevation:	930 ft msl	Runway Surface Condition:	Dry
Runway Used:	36	IFR Approach:	None
Runway Length/Width:	4000 ft / 100 ft	VFR Approach/Landing:	Full stop;Traffic pattern

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	1 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 None	Latitude, Longitude:	44.883056,-72.224441(est)

Administrative Information

Investigator In Charge (IIC):	Etcher, Shawn
Additional Participating Persons:	Gary Readio; FAA/FSDO; South Portland, ME
Original Publish Date:	October 15, 2012
Last Revision Date:	
Investigation Class:	Class
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=83572

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