



Aviation Investigation Final Report

Location:	Belle Chase, Louisiana	Accident Number:	CEN12CA185
Date & Time:	March 11, 2012, 12:45 Local	Registration:	N3424Y
Aircraft:	Cessna 180H	Aircraft Damage:	Substantial
Defining Event:	Sys/Comp malf/fail (non-power)	Injuries:	3 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

On downwind, the pilot noticed that the wind had increased and that there was light turbulence. He planned to land beyond some trees to avoid turbulence. The airplane encountered a wind gust during the landing roll. The pilot applied rudder and aileron corrections along with heavy braking. The airplane exited the runway and impacted a pipe rack resulting in substantial damage to the left wing. A postaccident examination of the airplane revealed that a tailwheel spring was bent, and its spring rate was weak, which allowed the tailwheel's fork to caster freely by not engaging into its machined locking detent.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: The bent tailwheel spring that allowed the tailwheel to caster when the airplane encountered a wind gust on landing roll.

Findings	
Environmental issues Gusts - Contributed to outcome	
Aircraft	Nose/tail landing gear - Fatigue/wear/corrosion
Aircraft	Nose/tail landing gear - Malfunction
Aircraft	Directional control - Attain/maintain not possible

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Factual Information

History of Flight

Landing-landing roll	Sys/Comp malf/fail (non-power) (Defining event)	
Landing-landing roll	Loss of control on ground	
Landing-landing roll	Runway excursion	

Pilot Information

Certificate:	Airline transport; Flight engineer	Age:	74,Male
Airplane Rating(s):	Single-engine land; Single-engine sea; Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 Without waivers/limitations	Last FAA Medical Exam:	January 19, 2012
Occupational Pilot:	No	Last Flight Review or Equivalent:	February 24, 2012
Flight Time:	31055 hours (Total, all aircraft), 5323 hours (Total, this make and model), 7 hours (Last 90 days, all aircraft), 4 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N3424Y
Model/Series:	180H	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	18051896
Landing Gear Type:	Tailwheel	Seats:	4
Date/Type of Last Inspection:	March 1, 2012 Annual	Certified Max Gross Wt.:	2800 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	CONT MOTOR
ELT:	C91 installed, not activated	Engine Model/Series:	0-470R
Registered Owner:	On file	Rated Power:	230 Horsepower
Operator:	On file	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	NGB,2 ft msl	Distance from Accident Site:	2 Nautical Miles
Observation Time:	12:51 Local	Direction from Accident Site:	170°
Lowest Cloud Condition:		Visibility	10 miles
Lowest Ceiling:	Broken / 2200 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	19 knots / 23 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	120°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.2 inches Hg	Temperature/Dew Point:	24°C / 17°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Pascagoula, MS (PQL)	Type of Flight Plan Filed:	None
Destination:	Belle Chase, LA (65LA)	Type of Clearance:	None
Departure Time:	12:05 Local	Type of Airspace:	

Airport Information

Airport:	Southern Seaplane Airport 65LA	Runway Surface Type:	Asphalt
Airport Elevation:	0 ft msl	Runway Surface Condition:	
Runway Used:	02	IFR Approach:	None
Runway Length/Width:	3200 ft / 40 ft	VFR Approach/Landing:	Full stop

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	2 None	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	3 None	Latitude, Longitude:	29.866111,-90.022224(est)

Administrative Information

Investigator In Charge (IIC):	Malinowski, Edward		
Additional Participating Persons:	Terry Macon; Federal Aviation Administration; Baton Rouge, LA		
Original Publish Date:	May 21, 2012		
Last Revision Date:			
Investigation Class:	<u>Class</u>		
Note:	This accident report documents the factual circumstances of this accident as described to the NTSB.		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=83106		

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