

Aviation Investigation Final Report

Location:	NORTH PLAINS, Orego	on	Accident Number:	SEA87LA157
Date & Time:	August 5, 1987, 12:17 Local		Registration:	N222WY
Aircraft:	BELLANCA	7GCBC	Aircraft Damage:	Substantial
Defining Event:			Injuries:	1 None
Flight Conducted Under:	Part 91: General aviation - Other work use			

Analysis

THE PLT RPRTD THAT DRG A X-WIND LNDG, THE ACFT TOUCHED DOWN ON THE RGT MAIN GEAR, THEN AFTER ROLLING APRX 50 TO 100 FT, THE LEFT MAIN GEAR TOUCHED DOWN. AS THE LEFT WHEEL TOUCHED DOWN, THE LEFT AXLE FAILED, PITCHING THE ACFT ON ITS NOSE. THE ACFT THEN SKIDDED ON ITS NOSE FOR ANOTHER 75 TO 100 FT. AN EXAM OF THE AXLE REVEALED A FATIGUE CRACK HAD PENETRATED ABOUT 50% OF ITS CROSS SECTION BEFORE FINAL OVERSTRESS SEPARATION. THERE WERE MULTIPLE ORIGINS OF THE CRACK AT THE EDGE OF A CIRCUMFERENTIAL WELD.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

Findings

Occurrence #1: AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION Phase of Operation: LANDING - FLARE/TOUCHDOWN

Findings 1. (C) LANDING GEAR,AXLE - FATIGUE Occurrence #2: NOSE DOWN Phase of Operation: LANDING

Factual Information

Pilot Information

Certificate:	Commercial	Age:	61,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Front
Other Aircraft Rating(s):	Glider	Restraint Used:	
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 Valid Medicalw/ waivers/lim	Last FAA Medical Exam:	December 10, 1986
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	2376 hours (Total, all aircraft), 402 hours (Total, this make and model), 2243 hours (Pilot In Command, all aircraft), 133 hours (Last 90 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	BELLANCA	Registration:	N222WY
Model/Series:	7GCBC 7GCBC	Aircraft Category:	Airplane
Year of Manufacture:		Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	376-72
Landing Gear Type:	Tailwheel	Seats:	2
Date/Type of Last Inspection:	May 10, 1987 Annual	Certified Max Gross Wt.:	1650 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	1630 Hrs	Engine Manufacturer:	LYCOMING
ELT:	Not installed	Engine Model/Series:	0-320-A2D
Registered Owner:	WILLAMETTE VALLEY SOARING	Rated Power:	150 Horsepower
Operator:		Operating Certificate(s) Held:	None
Operator Does Business As:		Operator Designator Code:	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:		Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:	Clear	Visibility	30 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	15 knots / 20 knots	Turbulence Type Forecast/Actual:	/
Wind Direction:	330°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:		Temperature/Dew Point:	24°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	(10R3)	Type of Flight Plan Filed:	None
Destination:		Type of Clearance:	None
Departure Time:	00:00 Local	Type of Airspace:	Class G

Airport Information

Airport:	SUNSET 10R3	Runway Surface Type:	Grass/turf
Airport Elevation:	207 ft msl	Runway Surface Condition:	Dry
Runway Used:	24	IFR Approach:	None
Runway Length/Width:	2500 ft / 200 ft	VFR Approach/Landing:	Full stop

Wreckage and Impact Information

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

Administrative Information

Investigator In Charge (IIC):	Carrera, Candace	
Additional Participating Persons:	WES GREEN; HILLSBORO , CA	
Original Publish Date:	October 25, 1988	
Last Revision Date:		
Investigation Class:	<u>Class</u>	
Note:		
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=40671	

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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.