

		NTSB ID: FTW99LA145		Aircraft Registration Number: N5500C	
		Occurrence Date: 05/21/1999		Most Critical Injury: None	
		Occurrence Type: Accident		Investigated By: NTSB	
Location/Time					
Nearest City/Place LUFKIN	State TX	Zip Code 75915	Local Time 1400	Time Zone CDT	
Airport Proximity: On Airport		Distance From Landing Facility:		Direction From Airport:	
Aircraft Information Summary					
Aircraft Manufacturer Bellanca		Model/Series 8KCAB		Type of Aircraft Airplane	
Sightseeing Flight: No			Air Medical Transport Flight: No		
Narrative					
<p>Brief narrative statement of facts, conditions and circumstances pertinent to the accident/incident:</p> <p>On May 21, 1999, at 1400 central daylight time, a Bellanca 8KCAB tailwheel equipped airplane, N5500C, was substantially damaged following a loss of directional control while landing near Lufkin, Texas. The flight instructor and the instrument rated private pilot receiving instruction were not injured. The airplane was owned and operated by Nacogdoches Taildraggers, Inc., of Nacogdoches, Texas. Visual meteorological conditions prevailed for the Title 14 CFR Part 91 flight for which a flight plan was not filed. The local instructional flight originated from the A.L. Mangham, Jr. Regional Airport (OCH), near Nacogdoches, Texas, at approximately 1330.</p> <p>According to the FAA inspector who responded to the accident site, the flight arrived at the Angelina County Airport (LFK), located near Lufkin, Texas, to practice takeoffs and landings. The flight instructor reported that following their second practice landing, a normal wheel landing on runway 15, the "U-bolt" attaching the left main landing gear to the fuselage failed, resulting in the separation of the left main landing gear. The left wing contacted the ground and the airplane came to rest on the west side of the 4,550 foot runway.</p> <p>Examination of the 1978 model aircraft revealed structural damage to the left wing and the left main landing gear attaching point. Additionally, one propeller blade was bent and the underside of the airframe was damaged. A review of the maintenance history of the airplane by the FAA inspector revealed that the airframe had accumulated a total time of 708 hours.</p> <p>The failed landing gear U-bolt, Bellanca part number 1-9805, was shipped to the NTSB Materials Laboratories in Washington, D.C., for examination and evaluation. The metallurgical examination revealed that the bolt fractured as a result of fatigue. See enclosed report for details of the examination.</p> <p>The surface winds at the time of the occurrence were reported from 200 degrees at 5 knots.</p>					
FACTUAL REPORT - AVIATION					
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 National Transportation Safety Board FACTUAL REPORT AVIATION		NTSB ID: FTW99LA145				
		Occurrence Date: 05/21/1999				
		Occurrence Type: Accident				
Landing Facility/Approach Information						
Airport Name ANGELINA COUNTY AIRPORT		Airport ID: LFK	Airport Elevation 250 Ft. MSL	Runway Used 15	Runway Length 4515	Runway Width 100
Runway Surface Type: Asphalt						
Runway Surface Condition: Dry						
Type Instrument Approach:						
VFR Approach/Landing: Touch and Go						
Aircraft Information						
Aircraft Manufacturer Bellanca		Model/Series 8KCAB		Serial Number 401-78		
Airworthiness Certificate(s): Acrobatic; Normal						
Landing Gear Type: Tailwheel						
Homebuilt Aircraft? No		Number of Seats: 2	Certified Max Gross Wt. 1800 LBS		Number of Engines: 1	
Engine Type: Reciprocating		Engine Manufacturer: Lycoming		Model/Series: AEIO-320-E2B	Rated Power: 160 HP	
- Aircraft Inspection Information						
Type of Last Inspection Annual		Date of Last Inspection 05/1998	Time Since Last Inspection 106 Hours		Airframe Total Time 708 Hours	
- Emergency Locator Transmitter (ELT) Information						
ELT Installed? Yes		ELT Operated? No		ELT Aided in Locating Accident Site?		
Owner/Operator Information						
Registered Aircraft Owner MICHAEL R. MCLEAN		Street Address P.O. BOX 631954				
		City NACOGDOCHES		State TX	Zip Code 75963	
Operator of Aircraft Same as Reg'd Aircraft Owner		Street Address Same as Reg'd Aircraft Owner				
		City		State	Zip Code	
Operator Does Business As: NACOGDOCHES TAILDRAGGERS INC.				Operator Designator Code:		
- Type of U.S. Certificate(s) Held: None						
Air Carrier Operating Certificate(s):						
Operating Certificate:			Operator Certificate:			
Regulation Flight Conducted Under: Part 91: General Aviation						
Type of Flight Operation Conducted: Instructional						

 <p>National Transportation Safety Board FACTUAL REPORT AVIATION</p>	NTSB ID: FTW99LA145
	Occurrence Date: 05/21/1999
	Occurrence Type: Accident

First Pilot Information

Name On File	City On File	State On File	Date of Birth On File	Age 78
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Sex: M	Seat Occupied: Right	Principal Profession: Retired	Certificate Number: On File
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Certificate(s): Flight Instructor; Commercial

Airplane Rating(s): Multi-engine Land; Single-engine Land

Rotorcraft/Glider/LTA: None

Instrument Rating(s): Airplane

Instructor Rating(s): Airplane Multi-engine; Airplane Single-engine; Instrument Airplane

Type Rating/Endorsement for Accident/Incident Aircraft?	Current Biennial Flight Review?
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Medical Cert.: Class 2	Medical Cert. Status: Valid Medical--w/ waivers/lim.	Date of Last Medical Exam: 03/1999
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- Flight Time Matrix	All A/C	This Make and Model	Airplane Single Engine	Airplane Multi-Engine	Night	Instrument		Rotorcraft	Glider	Lighter Than Air
						Actual	Simulated			
Total Time	7578	12	5020	2543	860	363	133			
Pilot In Command(PIC)	7251	12	5020	2543	860	363	133			
Instructor	5128	12	4700	2400						
Last 90 Days	91									
Last 30 Days	32									
Last 24 Hours	3									

Seatbelt Used? Yes	Shoulder Harness Used? Yes	Toxicology Performed? No	Second Pilot? Yes
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Flight Plan/Itinerary

Type of Flight Plan Filed: None

Departure Point NACOGDOCHES	State TX	Airport Identifier OCH	Departure Time 1330	Time Zone CDT
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Destination Local Flight	State	Airport Identifier	
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Type of Clearance: None

Type of Airspace: Class G

Weather Information

Source of Briefing:
No record of briefing

Method of Briefing:

 <p>National Transportation Safety Board FACTUAL REPORT AVIATION</p>	NTSB ID: FTW99LA145
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Weather Information

WOF ID	Observation Time	Time Zone	WOF Elevation	WOF Distance From Accident Site	Direction From Accident Site
LFK	1350	CDT	296 Ft. MSL	1 NM	270 Deg. Mag.

Sky/Lowest Cloud Condition: Scattered 3700 Ft. AGL Condition of Light: Day

Lowest Ceiling: None 0 Ft. AGL Visibility: 10 SM Altimeter: 30.00 "Hg

Temperature: 30 °C Dew Point: 20 °C Wind Direction: 200 Density Altitude: Ft.

Wind Speed: 5 Gusts: Weather Conditions at Accident Site: Visual Conditions

Visibility (RVR): 0 Ft. Visibility (RVV) 0 SM Intensity of Precipitation: Unknown

Restrictions to Visibility: None

Type of Precipitation: None

Accident Information

Aircraft Damage: Substantial Aircraft Fire: None Aircraft Explosion: None

Classification: U.S. Registered/U.S. Soil

- Injury Summary Matrix	Fatal	Serious	Minor	None	TOTAL
First Pilot				1	1
Second Pilot					
Student Pilot				1	1
Flight Instructor					
Check Pilot					
Flight Engineer					
Cabin Attendants					
Other Crew					
Passengers					
- TOTAL ABOARD -				2	2
Other Ground	0	0	0		0
- GRAND TOTAL -	0	0	0	2	2

National Transportation Safety Board

FACTUAL REPORT

AVIATION



NTSB ID: FTW99LA145

Occurrence Date: 05/21/1999

Occurrence Type: Accident

Administrative Information

Investigator-In-Charge (IIC)

HECTOR R. CASANOVA

Additional Persons Participating in This Accident/Incident Investigation:

SUSAN GROFF
FAA FSDO
HOUSTON, TX 77059