



Aviation Investigation Final Report

Location: Palmer, Alaska Accident Number: ANC17LA042

Date & Time: August 4, 2017, 19:00 Local Registration: N6523T

Aircraft: Beech 19A Aircraft Damage: Substantial

Defining Event: Loss of control on ground **Injuries:** 2 None

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

According to the private pilot, while landing at a remote, unimproved airstrip, the right main landing (MLG) tire impacted a rock. The airplane then began to veer right, and the MLG collapsed, which resulted in substantial damage to the empennage and horizontal stabilizer.

Postaccident examination of the airplane revealed that the right MLG separated near its attachment point. Visual and magnified optical examinations of the fractured surfaces revealed features consistent with a bending overstress fracture. Due to the pilot's selection of unsuitable terrain to land, the right main tire impacted a rock, which resulted in the subsequent loss of directional control and collapse of the right MLG.

Probable Cause and Findings

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

The pilot's selection of unsuitable terrain for landing, which resulted in the right main landing (MLG) tire impacting a rock and the subsequent loss of directional control and collapse of the right MLG.

Findings

Personnel issues Decision making/judgment - Pilot

Environmental issues (general) - Decision related to condition

Environmental issues Debris/dirt/foreign object - Effect on operation

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Factual Information

History of Flight

Landing-landing roll	Collision with terr/obj (non-CFIT)
Landing-landing roll	Loss of control on ground (Defining event)
Landing-landing roll	Landing gear collapse

On August 4, 2017, about 1900 Alaska daylight time, a tricycle gear equipped Beech BE19 airplane, N6523T, sustained substantial damage while landing at a remote unimproved airstrip, about 25 miles southeast of Palmer, Alaska. The airplane was being operated by the pilot as a 14 *Code of Federal Regulations* Part 91 visual flight rules flight. The private pilot and passenger were not injured. Visual meteorological conditions prevailed, and no flight plan had been filed. The flight departed Merrill Field Airport (PAMR), Anchorage, Alaska at about 1745.

According to the pilot, while landing at a remote unimproved airstrip, the right main tire impacted a rock. The airplane began to veer to the right, and the right main gear collapsed, which resulted in substantial damage to the empennage and horizontal stabilizer.

A National Transportation Safety Board (NTSB) Senior Metallurgist reported that visual and magnified optical examination of the fractured surfaces revealed features consistent with a bending overstress separation. No indications of preexisting fatigue, corrosion or significant porosity were detected. (A synopsis of the NTSB Metallurgist's case review is included in the public docket for this accident.)

In the recommendation section of the NTSB Accident/Incident Reporting Form 6120.1, the pilot stated that the accident may have been avoided if the Federal Aviation Administration or Alaska Department of Transportation would have provided minimal funding to local pilot groups to provide minimal maintenance of routinely used backcountry airstrips.

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Pilot Information

Certificate:	Private	Age:	33,Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Unknown
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:	August 20, 2015
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	1200 hours (Total, all aircraft), 303 hours (Total, this make and model), 1127 hours (Pilot In Command, all aircraft), 62 hours (Last 90 days, all aircraft), 26 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	Beech	Registration:	N6523T
Model/Series:	19A A	Aircraft Category:	Airplane
Year of Manufacture:	1968	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	MB-357
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	June 9, 2017 Annual	Certified Max Gross Wt.:	2250 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	3802.03 Hrs at time of accident	Engine Manufacturer:	LYCOMING
ELT:	C126 installed, not activated	Engine Model/Series:	0-320 SERIES
Registered Owner:	On file	Rated Power:	160 Horsepower
Operator:	On file	Operating Certificate(s) Held:	None

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Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	PAAQ	Distance from Accident Site:	25 Nautical Miles
Observation Time:	02:53 Local	Direction from Accident Site:	318°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	3 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	190°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.19 inches Hg	Temperature/Dew Point:	22°C / 13°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	ANCHORAGE, AK (MRI)	Type of Flight Plan Filed:	None
Destination:	ANCHORAGE, AK (MRI)	Type of Clearance:	None
Departure Time:		Type of Airspace:	Class G

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:	62.521945,-148.587219(est)

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Administrative Information

Investigator In Charge (IIC):

Additional Participating Persons:

Original Publish Date:

November 6, 2019

Last Revision Date:

Investigation Class:

Class

Note:

The NTSB did not travel to the scene of this accident.

Investigation Docket:

https://data.ntsb.gov/Docket?ProjectID=95768

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

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.

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