



# **Aviation Investigation Final Report**

**Location:** Livermore, California **Accident Number:** WPR24LA163

Date & Time: May 25, 2024, 09:53 Local Registration: N6003F

Aircraft: CESSNA AIRCRAFT CO 162 Aircraft Damage: Substantial

**Defining Event:** Hard landing **Injuries:** 2 None

Flight Conducted Under: Part 91: General aviation - Instructional

#### **Analysis**

The flight instructor of the airplane reported that, during the landing flare, the student pilot flared too high. The flight instructor directed the student pilot to initiate a go-around. The student pilot raised the airplane's nose but did not advance the throttle to takeoff power. The flight instructor assumed control of the airplane, applied full power, and retracted the flaps to 25°. Subsequently, the airplane aerodynamically stalled and impacted the runway surface, which resulted in substantial damage to the right wing and empennage.

The flight instructor reported that there were no preaccident mechanical failures or malfunctions with the airplane 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 flight instructor's delayed remedial action, which resulted in an aerodynamic stall and abnormal contact with the runway. Contributing to the accident was the student pilot's improper landing flare and go-around.

### **Findings**

Personnel issues	Aircraft control - Student/instructed pilot	
Personnel issues	Delayed action - Instructor/check pilot	
Aircraft	Angle of attack - Capability exceeded	

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## **Factual Information**

### **History of Flight**

Landing-flare/touchdown	Hard landing (Defining event)	
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#### **Pilot Information**

Certificate:	Flight instructor	Age:	34,Female
Airplane Rating(s):	Single-engine land	Seat Occupied:	Right
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	Airplane	Second Pilot Present:	No
Instructor Rating(s):	Airplane single-engine	Toxicology Performed:	
Medical Certification:	Class 3 Without waivers/limitations	Last FAA Medical Exam:	January 23, 2020
Occupational Pilot:	No	Last Flight Review or Equivalent:	July 7, 2023
Flight Time:	(Estimated) 1208.8 hours (Total, all aircraft), 28.4 hours (Total, this make and model), 1128.5 hours (Pilot In Command, all aircraft), 253.3 hours (Last 90 days, all aircraft), 91.7 hours (Last 30 days, all aircraft), 1.9 hours (Last 24 hours, all aircraft)		

#### **Pilot Information**

Certificate:	None	Age:	23,Female
Airplane Rating(s):	None	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	Unknown
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	
Medical Certification:	None None	Last FAA Medical Exam:	
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	5.8 hours (Total, all aircraft), 5.8 hours (Total, this make and model), 5.8 hours (Last 90 days, all aircraft), 5.8 hours (Last 30 days, all aircraft)		

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### **Aircraft and Owner/Operator Information**

Aircraft Make:	CESSNA AIRCRAFT CO	Registration:	N6003F
Model/Series:	162	Aircraft Category:	Airplane
Year of Manufacture:	2011	Amateur Built:	
Airworthiness Certificate:	Special light-sport (Special)	Serial Number:	16200125
Landing Gear Type:	Tricycle	Seats:	2
Date/Type of Last Inspection:	October 7, 2023 Annual	Certified Max Gross Wt.:	1324 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	482.5 Hrs as of last inspection	Engine Manufacturer:	Continental
ELT:	C91A installed, not activated	Engine Model/Series:	O-200-D
Registered Owner:	IONAJ INC	Rated Power:	100 Horsepower
Operator:	IONAJ INC	Operating Certificate(s) Held:	None

### Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
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Observation Facility, Elevation:	KLVK,399 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	09:53 Local	Direction from Accident Site:	
<b>Lowest Cloud Condition:</b>	Scattered / 1500 ft AGL	Visibility	10 miles
Lowest Ceiling:	Broken / 1500 ft AGL	Visibility (RVR):	
Wind Speed/Gusts:	10 knots /	Turbulence Type Forecast/Actual:	None / Unknown
Wind Direction:	260°	Turbulence Severity Forecast/Actual:	N/A / Unknown
Altimeter Setting:	30.01 inches Hg	Temperature/Dew Point:	14°C / 10°C
Precipitation and Obscuration:	No Obscuration; No Precipita	ition	
Departure Point:	Livermore, CA	Type of Flight Plan Filed:	None
Destination:	Livermore, CA	Type of Clearance:	VFR
Departure Time:		Type of Airspace:	Class D

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### **Airport Information**

Airport:	Livermore Municipal Airport LVK	Runway Surface Type:	Asphalt
Airport Elevation:	399 ft msl	<b>Runway Surface Condition:</b>	Dry
Runway Used:	25L	IFR Approach:	None
Runway Length/Width:	2699 ft / 75 ft	VFR Approach/Landing:	Go around

### 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:	37.693389,-121.82036(est)

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#### **Administrative Information**

Investigator In Charge (IIC):	Whitaker, Kathryn
Additional Participating Persons:	Benjamin Brillo; FAA; Oakland, CA
Original Publish Date:	July 25, 2024
Last Revision Date:	
Investigation Class:	Class 4
Note:	The NTSB did not travel to the scene of this accident.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=194325

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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