



Aviation Investigation Factual Report

Location:	Cahokia, Illinois	Accident Number:	CEN23LA150
Date & Time:	April 9, 2023, 08:45 Local	Registration:	N372PA
Aircraft:	HELICOPTERES GUIMBAL CABRI G2	Aircraft Damage:	Substantial
Defining Event:	Sys/Comp malf/fail (non-power)	Injuries:	1 Minor, 1 None
Flight Conducted Under:	Part 91: General aviation - Instructional		

Factual Information

On April 9, 2023, at 0845 central daylight time, a Helicopteres Guimbal Cabri G2, N372PA, was involved in an accident near Cahokia, Illinois. The helicopter sustained substantial damage. The flight instructor received minor injuries and the student pilot was uninjured. The helicopter was operated under Title 14 *Code of Federal Regulations* Part 91 as an instructional flight.

The flight instructor stated that during the approach for landing at the departure airport, his left cyclic had “a little bit of play,” and the helicopter was not responding fully to his control inputs. He then completely lost cyclic control upon lining up with the taxiway of intended landing site. He stated that he still had collective and rudder control. The student pilot’s cyclic controls continued to function, and the flight instructor coached him on cyclic control inputs to maintain control of the helicopter, but the student pilot’s cyclic control then ceased to function. The helicopter impacted the ground during the attempted landing and sustained substantial damage to the main rotor blades.

Postaccident examination of the flight control system revealed that the helicopter’s Illustrated Parts Catalog part #34 (Reference HG17-0545) - Pin and part #36 (Reference HG21-0803) – Safety Pin were found not in place on the left cyclic control. Part #43.0 (Reference G41-41-300) – Pin Locker, part # 44 (Reference HG20-2036) – Bolt and part #7 (Reference HG12-0332) – Nut were not installed. Ideal Aviation was unable to a date when these parts were removed. There was no evidence indicating these parts were impacted by the crash. The left cyclic control did not have any deformation/damage.

Flight instructor Information

Certificate:	Commercial; Flight instructor; Private	Age:	27, Male
Airplane Rating(s):		Seat Occupied:	Left
Other Aircraft Rating(s):	Helicopter	Restraint Used:	4-point
Instrument Rating(s):	Helicopter	Second Pilot Present:	Yes
Instructor Rating(s):	Helicopter; Instrument helicopter	Toxicology Performed:	
Medical Certification:	Class 2 Without waivers/limitations	Last FAA Medical Exam:	January 2, 2023
Occupational Pilot:	Yes	Last Flight Review or Equivalent:	June 5, 2022
Flight Time:	545 hours (Total, all aircraft), 542 hours (Total, this make and model), 483 hours (Pilot In Command, all aircraft), 87 hours (Last 90 days, all aircraft), 40 hours (Last 30 days, all aircraft), 3 hours (Last 24 hours, all aircraft)		

Student pilot Information

Certificate:	Private	Age:	41, Male
Airplane Rating(s):	Single-engine land	Seat Occupied:	Right
Other Aircraft Rating(s):	None	Restraint Used:	4-point
Instrument Rating(s):	None	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	
Medical Certification:	Class 2 Without waivers/limitations	Last FAA Medical Exam:	June 7, 2021
Occupational Pilot:	No	Last Flight Review or Equivalent:	July 2, 2010
Flight Time:	131 hours (Total, all aircraft), 17 hours (Total, this make and model), 34 hours (Pilot In Command, all aircraft), 17 hours (Last 90 days, all aircraft), 9 hours (Last 30 days, all aircraft), 0 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	HELICOPTERES GUIMBAL	Registration:	N372PA
Model/Series:	CABRI G2	Aircraft Category:	Helicopter
Year of Manufacture:	2016	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	1150
Landing Gear Type:	Skid	Seats:	2
Date/Type of Last Inspection:	April 7, 2023 Annual	Certified Max Gross Wt.:	1543 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:		Engine Manufacturer:	Lycoming
ELT:	C126 installed, activated, did not aid in locating accident	Engine Model/Series:	O-360
Registered Owner:	Rotor Leasing LLC	Rated Power:	145 Horsepower
Operator:	Ideal Aviation	Operating Certificate(s) Held:	Pilot school (141)

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	CPS,413 ft msl	Distance from Accident Site:	0 Nautical Miles
Observation Time:	08:45 Local	Direction from Accident Site:	
Lowest Cloud Condition:		Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	8 knots /	Turbulence Type Forecast/Actual:	/
Wind Direction:	130°	Turbulence Severity Forecast/Actual:	/
Altimeter Setting:	30.4 inches Hg	Temperature/Dew Point:	11°C / -1°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Cahokia, IL	Type of Flight Plan Filed:	None
Destination:	Cahokia, IL	Type of Clearance:	VFR
Departure Time:		Type of Airspace:	Class D

Airport Information

Airport:	St Louis Downtown Airport CPS	Runway Surface Type:	Concrete
Airport Elevation:	413 ft msl	Runway Surface Condition:	Dry
Runway Used:	Taxiway A	IFR Approach:	None
Runway Length/Width:	2000 ft / 50 ft	VFR Approach/Landing:	Straight-in;Traffic pattern

Wreckage and Impact Information

Crew Injuries:	1 Minor, 1 None	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:		Aircraft Explosion:	None
Total Injuries:	1 Minor, 1 None	Latitude, Longitude:	38.570361,-90.155083(est)

Administrative Information

Investigator In Charge (IIC):	Gallo, Mitchell
Additional Participating Persons:	Robert Prenger; Federal Aviation Administration, St. Louis FSDO; St. Ann, MO Bernard Boudaille; Bureau d'Enquêtes et d'Analyses pour la sécurité de l'aviation civile Dennis Mueller; Federal Aviation Administration, St. Louis FSDO; St. Ann, MO
Report Date:	
Last Revision Date:	
Investigation Class:	Class 3
Note:	The NTSB did not travel to the scene of this accident.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=107038

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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](#).