

ACCIDENT

Aircraft Type and Registration:	Gazelle HT.MK3, G-CBXT (XW898)	
No & Type of Engines:	1 Turbomeca Astazou IIN2 turboshaft engine	
Year of Manufacture:	1974	
Date & Time (UTC):	1 November 2008 at 0928 hrs	
Location:	Winchcombe, Gloucestershire	
Type of Flight:	Private	
Persons on Board:	Crew - 1	Passengers - 2
Injuries:	Crew - 1 (Fatal)	Passengers - 2 (Fatal)
Nature of Damage:	Aircraft destroyed	
Commander's Licence:	Private Pilot's Licence (Helicopter)	
Commander's Age:	55 years old	
Commander's Flying Experience:	305 hours (of which 122 ¹ were on type) Last 90 days - 5 hours Last 28 days - 1 hour	
Information Source:	AAIB Field Investigation	

Synopsis

The aircraft was en-route from a private site near Tamworth, Staffordshire, to a maintenance facility near Royal Naval Air Station (RNAS) Yeovilton, Somerset. As it approached Langley Hill, near Winchcombe, Gloucestershire, it appears to have unintentionally entered IMC and subsequently impacted the hillside. All three occupants were fatally injured.

History of the flight

The helicopter was based at a private site at Baxterly, near Tamworth, Staffordshire, where one of its two owners lived. The other owner was the pilot of the accident flight. The co-owner who lived at Baxterly was not aware the pilot was intending to fly on

1 November 2008. However, prior to departure, from a window in his house, he witnessed the pilot strap a female passenger into the front left seat of G-CBXT.

The helicopter departed Baxterly at 0845 hrs and the pilot was planning to fly to a maintenance facility 3 nm north-north-east of RNAS Yeovilton, Somerset for a 25 hr inspection. En-route it landed and collected another passenger from a private site near Norton Lindsey, Warwickshire from where it departed at 0918 hrs.

Footnote

¹ The pilot's logbook was not recovered after the accident. All hours were obtained from the helicopter's technical log and data retrieved from its GPS.

Radio communications were established with ATC at Gloucestershire Airport at 0923 hrs as the helicopter approached Honeybourne². The pilot informed ATC of his current position, routing and destination. They instructed him to report south-east abeam the airfield, which the pilot acknowledged. At 0938 hrs ATC attempted to contact G-CBXT as they had not received a position report; there was no reply. ATC continued to try to call the helicopter for the next 15 minutes and telephoned neighbouring airfields to see whether contact had made with them; it had not. At 0955 hrs ATC contacted the Distress and Diversion centre and overdue action was initiated.

The burned and smouldering wreckage of a helicopter was discovered by a horse rider at 1145 hrs on Langley Hill, 7 nm north-east of Gloucestershire Airport. This was later confirmed to be G-CBXT. All three occupants had been fatally injured.

Helicopter information

The Gazelle is an all-purpose, lightweight, military helicopter powered by a single gas turbine engine. It has three composite rotor blades and a fenestron (ducted fan) in place of a traditional tail rotor. It has an authorised maximum total weight of 1,900kg.

This helicopter was delivered to the Royal Air Force in 1973 and operated as XW898 until 1997, when it was put into controlled storage before being sold as surplus in 2001. The helicopter was then transferred to the civilian register as G-CBXT and after inspection and test, was awarded a Permit to Fly by the CAA in 2003. Conditions were placed on its operation which included the following limitation:

Footnote

² Honeybourne is a disused airfield 16 nm north-east of Gloucestershire Airport that is commonly used as a visual reporting point.

5. Maximum number of occupants

5.1 Maximum number of occupants authorised to be carried (including crew): Four (Two flight crew and two ground crew, i.e. engineering staff required for the maintenance of the aircraft away from base).'

It was also to only be flown by day and in accordance with visual flight rules. An exemption allowed the helicopter to remain in its military livery and not display its civilian registration.

Maintenance History

Since its transfer to the civilian register, G-CBXT had been maintained in accordance with an approved maintenance schedule by a CAA approved maintenance organisation specialising in Gazelle helicopters. All lifed parts were controlled within operational limits and the next scheduled inspection, a 25 hr inspection, was due on the 5 November 2008. This is a relatively simple inspection to verify the helicopter's ongoing airworthiness. The Permit to Fly and Permit Maintenance release certificate were valid.

No details of any known defects were found. The maintenance organisation advised that had there been any, it was likely that the pilot would have contacted them to arrange rectification.

A radio altimeter was fitted to the helicopter, but had been disabled and placarded 'inoperative' since its transfer to the civilian register. The equipment is not approved for use in civilian machines.

The maintenance organisation was able to provide a duplicate Technical Log and copies of relevant certificates; the originals were destroyed in the accident.

