## Cessna 152, G-BNSV

AAIB Bulletin No: 6/97 Ref: EW/G97/03/19Category: 1.3

Aircraft Type and Registration: Cessna 152, G-BNSV

No & Type of Engines: 1 Lycoming O-235-L2C piston engine

Year of Manufacture: 1980

**Date & Time (UTC):** 22 March 1997 at 1510 hrs

**Location:** Near Poslingford, Suffolk

**Type of Flight:** Private

**Persons on Board:** Crew - 1 - Passengers - 1

**Injuries:** Crew - None - Passengers - None

Nature of Damage: Crankshaft destroyed

Commander's Licence: Private Pilot's Licence

Commander's Age: 39 years

**Commander's Flying Experience:** 56 hours (of which 49 were on type)

Last 90 days - 4 hours

Last 28 days - 2 hours

**Information Source:** Aircraft Accident Report Form submitted by the pilot and

discussion with the CFI of the Flying Club

The aircraft had been airborne for 20 minutes and was at an altitude of 5,000 feet when the pilot noticed a slight change in enginetone which caused him to check throttle, mixture and carb heat. During these checks, which only took a second or two, the propellerstopped completely without any windmilling. All checks and indications of engine performance prior to the failure had been normal andthe failure did not produce any smoke or noise.

A 'MAYDAY' call was made to Cambridge and the pilot prepared foran emergency landing following standard procedures. The areawas mainly farmland, so the selection of a suitable field was relatively easy. The landing itself was made into a rolled wheatfield and was completed in a fully satisfactory manner withoutinjury to the occupants or damage to the aircraft or property. The Police, Fire Service, Ambulance Service and an RAF helicopterattended the scene of the forced landing.

The CFI noted that the recently qualified pilot had performed text book forced landing caused by a failure of the crankshaftacross a web of the centre main journal, which remained intact. The engine had been overhauled to zero hours 2032 hours beforethe failure, and no information of the crankshaft's previous servicewas available. A search of the CAA's SDU database did not revealany similar problems on Lycoming engines. A metallurgical examination of the failed crankshaft was not carried out because the lackof service history meant that no significant conclusions couldbe derived from any observations made.