

North American T-6G Harvard, G-BKRA

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INCIDENT

Aircraft Type and Registration:	North American T-6G Harvard, G-BKRA
No & Type of Engines:	1 Pratt & Whitney R1340-AN1 piston engine
Year of Manufacture:	1951
Date & Time (UTC):	14 March 2000 at 1150 hrs
Location:	Leeds Bradford International Airport, Yorkshire
Type of Flight:	Training
Persons on Board:	Crew 2 - Passengers - None
Injuries:	Crew None - Passengers - N/A
Nature of Damage:	Minor damage to starboard wing tip. Possible undercarriage damage
Commander's Licence:	Airline Transport Pilots Licence
Commander's Age:	36 years
Commander's Flying Experience:	4,500 hours (of which 150 were on type) Last 90 days - 150 hours Last 28 days - 70 hours
Information Source:	Aircraft Accident Report Form submitted by the pilot

The aircraft was to depart from Leeds Bradford Airport and carry out a one hour type familiarisation flight for a student pilot. The commander occupied the front seat and the student was seated in the rear. The actual weather at the time the aircraft taxied was wind 280°/20 to 30 kt with the direction varying between 280° and 320°.

The aircraft was to depart from Runway 32 and was cleared to enter and, if required, to back track Runway 14. The pilot chose to use the maximum runway length and commenced taxiing along Runway 14. Although the wind speed was higher than forecast no control difficulties were experienced and the aircraft felt stable. In order to expedite the backtrack the pilot increased his speed which although faster than normal did not seem excessive. Shortly after increasing the speed a marked tail wheel shimmy developed. In order to avoid damage to the tail wheel unit the pilot gently eased the controls forward to what he considered was a point just beyond neutral, and almost immediately the tail wheel unlocked making it free to castor. Given the strength and direction of the tail wind component the aircraft immediately ground looped to the right through 270°.

The Flight Manual for the Harvard gives the following guidance for Downwind Taxiing:

The control stick should be held forward to prevent the tail from being lifted off the ground by wind pressures on the undersurface of the elevators.

NOTE

If the control stick is full forward, the tail wheel will unlock and free-swivel. To ensure steering engagement, the stick must be held a few inches aft of the full forward position.

The pilot considered that he moved the control stick too far forward causing the tail wheel to unlock which initiated the ground loop. Nevertheless, he concluded that if he had been taxiing at a lower speed the situation would have been manageable and no damage would have occurred.