



## SOUTH AFRICAN CIVIL AVIATION AUTHORITY

## **ACCIDENT REPORT - EXECUTIVE SUMMARY**

Aircraft Registration	ZS-DVD		Date of Accident	3 January 2003		Time of Acciden		nt	0645Z		
Type of Aircraft	PA-30			Type of Operation			Private (Hire and Fly)				
Pilot-in-command Licence Type			Commercial	Age	40	Licence Valid		Yes			
Pilot-in-command Flying Experience			Total Flying Hours	629.5 H		Hours on Type 119.7		9.7			
Last point of departure FAF			FAFB (Ficksburg)								
Next point of intended landing FA			FABM (Bethlehem)								
Location of the applicant site with reference to apply defined recoverable lawints (OD)											

Location of the accident site with reference to easily defined geographical points (GPS readings if possible)

Runway 11/29, Bethlehem aerodrome

Meteorological Information	CAVOK, Wind: 270°/5 Knots, Temperature: 18°C							
Number of people on board	1+3	No. of people injured	Nil	No. of people killed	Nil			
Synopsis								

The commercial pilot was accompanied by three passengers on what was to be a sight seeing flight in the Drakensberg region. The aircraft departed Ficksburg at 0615Z and routed to Bethlehem aerodrome for a re-fuelling stop where a normal landing was made on Runway 11.

Approximately 2/3 of the runway was used before a right hand turn was made in order to backtrack to the fuel pumps. The pilot had completed the 180° turn and had backtracked for approximately 10m when the left hand main landing-gear side brace stud failed causing the undercarriage on that side to collapse.

The aircraft had been moving very slowly when the left-hand gear collapsed which resulted in minimal damage to the left-hand wing tip and left-hand propeller.

No injuries were sustained.

The last MPI was certified on 19 February 2002 at 4759 airframe hours. The aircraft had accumulated 95 airframe hours since the last MPI.

## **Probable Cause**

According to metallurgical analysis, the failed undercarriage stud did not conform to the manufacturer's material specifications (bogus part), which resulted in premature failure of the stud under the influence of reversed bending stresses.