



## SOUTH AFRICAN CIVIL AVIATION AUTHORITY

### ACCIDENT REPORT – EXECUTIVE SUMMARY

<b>Aircraft Registration</b>	ZU-BPR	<b>Date of Accident</b>	16 June 2002	<b>Time of Accident</b>	1030Z
<b>Type of Aircraft</b>	JABIRU	<b>Type of Operation</b>	Private		
<b>Pilot-in-command License Type</b>	Microlight	<b>Age</b>	68	<b>License Valid</b>	Yes
<b>Pilot-in-command Flying Experience</b>	Total Flying Hours	578.0	<b>Hours on Type</b>	578.0	
<b>Last point of departure</b>	Upington Aerodrome				
<b>Next point of intended landing</b>	Fisantekraal near Cape Town				
<b>Location of the accident site with reference to easily defined geographical points (GPS readings if possible)</b>					
25nm East of Citrusdal (GPS: 32° 23.359' South 019° 28.588' East)					
<b>Meteorological Information</b>	Fine: Wind - Northerly / 10kts, Visibility - Good				
<b>Number of people on board</b>	One	<b>No. of people injured</b>	None	<b>No. of people killed</b>	None
<b>Synopsis</b>	<p>The pilot was engaged in a private flight from Upington to Fisantekraal near Cape Town. While approaching the Cederberg Mountains near Citrusdal at an altitude of approximately 7 000 feet amsl he noted a slight engine vibration prior to the engine cutting out.</p> <p>The pilot then attempted an engine restart, which he managed to conduct successfully. The engine was idling rough at <math>\pm 1\ 000</math> rpm, after applying carburetor heat the engine appeared to run smoother. While increasing the engine rpm the engine failed completely.</p> <p>The pilot broadcast a May Day call and a landing area was selected. A forced landing was executed on the foot of the Cederberg mountains in a north-easterly direction, on a rough rocky mountainous terrain.</p> <p>The pilot who was the sole occupant in the aircraft, vacated the wreckage uninjured and without assistance.</p>				
<b>Probable Cause</b>					
<p>During an engine tear down inspection it was found that the No.3 cylinder exhaust valve had failed in fatigue. This resulted in substantial secondary engine damage followed by a subsequent engine seizure and a forced/crash landing in mountainous terrain.</p>					

