

**SOUTH AFRICAN CIVIL AVIATION AUTHORITY****ACCIDENT REPORT – EXECUTIVE SUMMARY**

<b>Aircraft Registration</b>	ZS-FWD	<b>Date of Accident</b>	1 Oct 2002	<b>Time of Accident</b>	1205Z
<b>Type of Aircraft</b>	MOONEY M20F		<b>Type of Operation</b>	Private	
<b>Pilot-in-command Licence Type</b>	Airline Transport Pilot	<b>Age</b>	46	<b>Licence Valid</b>	Yes
<b>Pilot-in-command Flying Experience</b>	Total Flying Hours	12771	Hours on Type	600	
<b>Last point of departure</b>	FAKM (Kimberley Aerodrome)				
<b>Next point of intended landing</b>	FALC (Lime Acres)				
<b>Location of the accident site with reference to easily defined geographical points (GPS readings if possible)</b>					
Approximately 8 NM South-west of FAKM Aerodrome, on N12 leading to Cape Town. (S 28° 51' & E024° 41')					
<b>Meteorological Information</b>	Wind 280/005. Temperature +22°C.				
<b>Number of people on board</b>	1+0	<b>No. of people injured</b>	0	<b>No. of people killed</b>	0

**Synopsis**

On 1 October 2002, at approximately 1205Z, the pilot took off from Kimberley for a private flight to Lime Acres.

Shortly after take-off the engine lost power and the pilot carried out a forced landing on the N12 national road, leading to Cape Town.

During the landing the aircraft collided with a vehicle on the road and veered to the left, off the road, through a fence and came to rest in the field adjacent to the road.

Nobody sustained any injuries, but the aircraft sustained substantial damage, whilst minor damage was caused to the fence next to the road and to the vehicle on the road.

The pilot was correctly licensed, rated on the aircraft type and held a valid medical certificate as an airline transport pilot.

According to available records the aircraft was correctly maintained.

Fine weather conditions prevailed at the time of the accident.

Investigation revealed that the fuel system of the aircraft was severely contaminated with dirt.

The fuel filters at the Kimberley fuel depot were checked and found to be clean. In addition to the above, the fuel was checked for contamination and found to be clean and satisfactory.

**Probable Cause**

The engine lost power as a result of a contaminated fuel filter that will not always be noticed during drain checks as dirt may be captured on the filter.