Ref: 7435



SOUTH AFRICAN CIVIL AVIATION AUTHORITY

ACCIDENT REPORT - EXECUTIVE SUMMARY

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ZS-ITA	.	Date of Accident	2 Dec	ember 2001	Time of Acciden	t 0950Z		
В	Beech A60 (Duke)		Type of Operation		Performance test flight			
Pilot-in-command Licence Type		Airline Transport	Age	54	Licence Valid	Yes		
Pilot-in-command Flying Experience		Total Flying Hours	12700		Hours on Type	25		
е	Rand Aerodrome (FAGM)							
Next point of intended landing Rand			d Aerodrome (FAGM)					
Location of the accident site with reference to easily defined geographical points (GPS readings if possible)								
East of Fouchville at a position S26° 29.048' E027° 32.861'								
ation Su	Surface wind: Light westerly, Temperature: 23°C, Visibility: CAVOK							
board	2 + 0	No. of people in	jured	0 N	o. of people killed	0		
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	ence Type ing Experie e I landing ent site with position S26 ation Su	Beech A ence Type ing Experience e Ran I landing Ran ent site with refer cosition S26° 29.0 ation Surface	Beech A60 (Duke) Airline Transport Total Flying Hours Rand Aerodrome (FAGM Rand Aerodrome (FAGM Airline Transport Total Flying Hours Rand Aerodrome (FAGM Pent site with reference to easily defined to solition S26° 29.048′ E027° 32.861′ Tation Surface wind: Light westerly,	Beech A60 (Duke) Type of the process of the proces	Beech A60 (Duke) Type of Operation Age 54 Ing Experience Total Flying Hours 12700 Rand Aerodrome (FAGM) I landing Rand Aerodrome (FAGM) Pent site with reference to easily defined geographical point position S26° 29.048' E027° 32.861' Patient Surface wind: Light westerly, Temperature: 23°C, V	Beech A60 (Duke) Type of Operation Performance to Age Airline Transport Age Total Flying Hours Performance to Hours on Type Rand Aerodrome (FAGM) Are Street With reference to easily defined geographical points (GPS readings if possition S26° 29.048' E027° 32.861' Are Rand Aerodrome (FAGM) But Surface wind: Light westerly, Temperature: 23°C, Visibility: CAVOK		

Extensive repair/refurbishing work was carried out on the aircraft. As a requirement for the reissue of its Certificate of Airworthiness the aircraft was subjected to a performance test flight. The right-hand engine was shut down and the propeller feathered. The left-hand engine power setting was increased to maximum continuous power, but the aircraft was unable to maintain altitude. The pilot attempted to trim the aircraft more accurately in an attempt to obtain a positive rate of climb but to no avail. Attempts were made to start the right-hand engine again, but to no avail. The aircraft was loosing height, necessitating intervention by the crew and it was decided to execute a forced landing.

The post-impact fire destroyed the aircraft, but the occupants escaped unharmed.

The pilot was the holder of a valid pilot license and the aircraft type was endorsed on his license. Although his test pilot rating was approved it was not endorsed on his pilot's license.

The Certificate of Airworthiness of the aircraft was not valid as the test flight was a requirement for the C of A inspection. However all the other maintenance and repair work was appropriately certified.

Probable Cause

The aircraft was unable to maintain altitude with only the left-hand engine operational after the right-hand engine was shut-down as required for the flight performance test. The pilot was unable to re-start the inoperative right-hand engine and it was impossible to determine the exact cause for the right-hand engine not to re-start. The aircraft descended until a forced landing was inevitable.

A contributing factor to this accident was the pilot's choice to carry out the performance test flight over an area that was not suitable for such an operation.

IARC Date		Release Date	
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