



Section/division Accident and Incident Investigations Division

Form Number: CA 12-57

LIMITED ACCIDENT INVESTIGATION REPORT

Reference Number	CA18	3/2/3/*	10035												
Classification	Accio	Accident		Date		4 September 2021			Time			0720Z			
Type of Operation	Priva	Private Flight (Part 91)													
Location															
Place of Departu	(FAC	Orient Airfield (FAOI), Gauteng Province			Place of Intended Landing Orient Airfield Gauteng Prov								9I),		
Place of Accident	Runv	vay 36	6L at Or	ient	Airfield	I (FAOI))								
GPS Co-ordinates	Latitude	itude S 26°02'24.81"			Longitude E 027°			7°35	'36.9	95"			511 fee		
Aircraft Informat	tion						•								
Registration	ZS-G	βYΗ													
Model/Make	Moto	r Falk	e SF25	C (S	erial N	umber:	4424)								
Damage to Aircra	ft Subs	Substantial				Total Aircraft Hours				4255.3					
Pilot-in-commar	d														
Licence Type	Priva	Private Pilot Licence (F				PL) Gender			Male		Age: 55				
Licence Valid	Yes	Yes													
Total Hours on Type	4.8				Tota	l Flying	Hours	6		4	34.8				
People On-board	1 + 1	In	juries	0	Fata	Fatalities 0			Other (on ground)			0			
What Happened								1				/			
On 4 September aircraft with regis Runway (RWY) 3 day. Fine weathe The pilot stated th carried out. On the although the coo stated that the dis kilometres per he	tration ZS 36L. The r conditio hat the fir le second rdinated straction	S-GYH flight ns pre st circu l circu spoile contrik	H were was co evailed a cuit was it during r contro puted to	conc onduc at the corr g app ol feli o a lo	lucting cted un time pleted proach t differ wer th	circuit nder vis of the a I withou for RW ent, wh an idea	landing sual m cciden t issue 'Y 36L ich dis I airspo	gs at eteo t. es an , a st strac eed,	t Ori roloc nd a table ted t whic	ent / gical toucl des the p ch flu	Aeroo conc h-ano cent bilot s uctua	drome ditions d-go la was m slightly ted be	(FAC (VM ndin nainta . The twee	DI) on C) by g was ained, e pilot n 100	

According to the pilot, the aircraft was at a higher than ideal height from the ground when flaring was initiated, and had possibly applied too much airbrake, approximately in front of the lapa (building) at the airfield. The aircraft stalled during landing which resulted in a hard landing that damaged the propeller.

fence).

The pilot also stated that on hindsight, the initiation of a go-around would have been a more suitable solution to the distraction, but regrettably, this option was not exercised.

Following the accident, the engine flange was inspected by an approved person (AP) and was found undamaged.

The aircraft sustained damage to the propeller, and the airframe tubing was bent behind the monowheel. Both occupants were not injured during the accident.



Figure 1: The runway used (RWY 36L) at FAOI. (Source: Google Earth)



Landing

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Source: SF 25 C Pilot's Operating Handbook

The aircraft can be landed with the engine either running or stopped. Approach at 49 knots (56mph), flying a normal gliding type circuit. Control the glide path with the spoilers. As the spoilers are effective it is not usually necessary to slip the aircraft. With spoilers extended the rate of sink at 49 knots (56mph) is approximately 3.7 m/s (12 feet per second) At minimum touch down speed (38 knots / 44 mph), the Falke touches down with the tailwheel then with the mainwheel (in the case of the nosewheel version first with the mainwheel then with the nosewheel). The landing run of about 300 feet can be reduced effectively using the mainwheel brakes. The brake is operated by the spoiler control on the last part of its travel when it is pulled fully back, so never touch down with the spoiler lever pulled fully back. The tail dragger version of the Falke also features heelbrakes are applied to reduce speed after landing they must be operated evenly to avoid the Falke swerving.

Probable cause:

The aircraft was high on approach and the pilot flared too early, resulting in a hard landing and the propeller blades striking the ground.

Safety Action/s

None.

Safety Message and/or Safety Recommendation/s

None.

Purpose of the Investigation

In terms of Regulation 12.03.1 of the Civil Aviation Regulations (CAR) 2011, this report was compiled in the interest of the promotion of aviation safety and the reduction of the risk of aviation accidents or incidents and **not to apportion blame or liability**.

About this Report

Decisions regarding whether to investigate, and the scope of an investigation are based on many factors, including the level of safety benefit likely to be obtained from an investigation. For this occurrence, no investigation has been conducted, and the Accident and Incident Investigations Division (AIID) has relied on the information submitted by the affected person/s and organisation/s to compile this brief report. The report has been compiled using information supplied in the initial notification, as well as follow-up information to bring awareness of potential safety issues to the industry in respect of this occurrence, as well as possible safety action/s that the industry might want to consider in preventing a recurrence of a similar accident.

This report provides an opportunity to share safety message/s in the absence of an investigation.

All times given in this report are Co-ordinated Universal Time (UTC) and will be denoted by (Z). South African Standard Time is UTC plus 2 hours.

Disclaimer

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This report is issued by:

Accident and Incident Investigations Division South African Civil Aviation Authority Republic of South Africa

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