



Section/division Accident and Incident Investigations Division

## LIMITED OCCURRENCE INVESTIGATION REPORT – FINAL

Reference Number	CA18	CA18/2/3/10256													
Classification		Accident			Date	<b>e</b> 28	January 2023				Т	ime	115	)Z	
Type of Ope	ration	Private (	Private (Part 91)												
Location															
		e Farm in Malelane, alanga Province			Place of Intended Landing			nding	Wonderboom Aerodrome (FAWB), Gauteng Province						
Place of Occurrence Wonderboom Aerodrome (FAWB) on Runway 29															
GPS Co-ordinates		Latitude	25°39'13	9'13.58" S		Longit	ongitude		)28°13'42" E		Elevation		5	5 473 ft	
Aircraft Information															
Registration		ZS-LAP													
Make; Model; S/N Cessna 210 (Serial Number: 210-64078)															
Damage to Aircraft		Substant	Substantial				Total Aircraft			ours 8339.2					
Pilot-in-com	mand														
Licence Type Private		e Pilot Licence (PPL)			Gender			Male				Age 61			
Licence Valid	icence Ves		Total Hours			246.63		Total Hours of			on Type		9.1	9.1	
Total Hours Past 30 Days 9.1		9.1	.1			Total Flying Hours o 90 Days			on Type Past			9.1			
People On-b	oard	1 + 0	Injuries 0		Fata	Fatalities		0 <b>Othe</b>		Other	r (on ground)		d)	0	
What Happe	ned														

On Saturday, 28 January 2023 at 1215Z, a pilot on-board a Cessna 210 with registration ZS-LAP took off from a private farm in Malelane, Mpumalanga province, to Wonderboom Aerodrome (FAWB) in Gauteng province. This was a private flight which was conducted in visual meteorological conditions (VMC) by day and under the provisions of Part 91 of the Civil Aviation Regulations (CAR)

Upon entering the FAWB airspace, the pilot performed the pre-landing checks which included lowering the undercarriage. Whilst on approach for landing, the FAWB air traffic control (ATC) requested the pilot to orbit as there was another aircraft which was landing ahead of the ZS-LAP. During orbit, the pilot retracted the landing gears. Upon returning for landing approach on Runway 29, the pilot forgot to extend the landing gears again and, as a result, the aircraft landed on its belly. The pilot reported that by the time he heard a landing warning horn it was too late to either go-around or lower the landing gear. The aircraft scraped along the runway until it came to a halt. The Airport Rescue and Firefighting (ARFF) team rushed to the accident site upon noticing the accident. They discharged the fire extinguishing chemical (foam) to prevent a possible fire eruption.

The pilot disembarked from the aircraft unassisted; he was uninjured. The aircraft damage was limited to the bottom fuselage. No further damage was reported. The accident occurred during daylight at Global Positioning System (GPS) co-ordinates determined to be 25°39'13.58" S 028°13'42" E, at an elevation of 5 473ft.

2011 as amended.



Figure 1: The FAWB runway layout. (Source: Google Earth)



Figure 2: The chemical foam sprayed on the aircraft and the runway to prevent a possibility of fire eruption. (Source: Pilot)

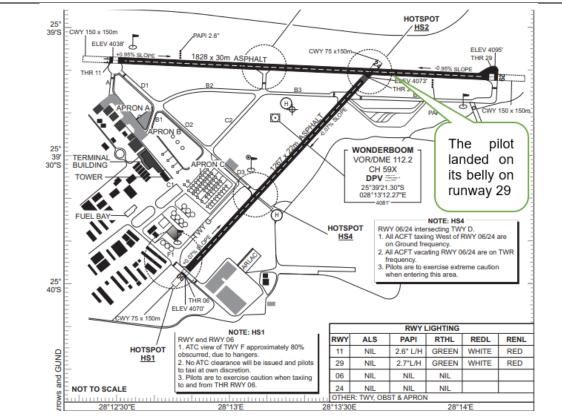


Figure 3: FAWB airport layout for FAWB.

The following information is an extract from the Cessna 210 Pilot's Operating Handbook (POH)

### **Before landing**

Seats, Belts, Shoulder Harnesses – Secure Fuel Selector Valve—Fuller Tank Landing gear—Extend (below 140 KIAS) Landing gear—check (observe main gear down and green indicator light on) Mixture—Rich Propeller—High RPM Wing Flaps—As DESIRED (0° to 10° below 140 KIAS, 10° to 30° below 105 KIAS) Autopilot (If installed)—OFF. Elevator Trim—Adjust Normal landing Airspeed –80-90 KIAS (flaps up) Wing Flaps—As DESIRED (flaps down preferred) Airspeed—70-80 KIAS (flaps DOWN) Elevator Trim—ADJUST Touchdown—MAIN WHEEL FIRST Landing Roll—LOWER NOSE WHEEL GENTLY Braking—MINIMUM REQUIRED

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# Findings

Findings	
• The pilot was reissued the Private Pilot Licence (PPL) by the South A	African Civil Aviation Authorit
(SACAA) on 31 August 2022 with an expiry date of 31 August 2024	
<ul> <li>The pilot had a valid Class 2 aviation medical certificate which was is an expiry date of 3 August 2023.</li> </ul>	ssued on 3 August 2022 wit
<ul> <li>This flight was conducted under the provisions of Part 91 of the CAI</li> </ul>	R 2011 as amended.
• At the time of the accident, the pilot had flown a total of 246.63 ho on the aircraft type.	urs, of which 9.1 hours wer
<ul> <li>The last 100-hour MPI prior to the accident flight was certified on</li> </ul>	8 February 2022 at 8302.
airframe hours. The aircraft was flown a further 37 hours since the l	ast MPI.
<ul> <li>The aircraft maintenance organisation (AMO) that performed the approval certificate that was issued by the SACAA IAW Part 145 of on 29 November 2022 with an expiry date of 30 November 2023.</li> </ul>	·
<ul> <li>The Certificate of Airworthiness (C of A) was issued on 7 August 20 August 2023.</li> </ul>	013 with an expiry date of 3
<ul> <li>The Certificate of Registration (C of R) was issued to the current ow</li> </ul>	vner on 11 June 2019.
<ul> <li>The Certificate of Release to Service (CRS) was issued on 8 Febru</li> </ul>	ary 2022 with an expiry dat
of 7 February 2023 or at 8402.2 hours, whichever occurs first.	
<ul> <li>The pilot reported that he forgot to lower the undercarriage after the</li> </ul>	e ATC instructed him to orbi
causing him to not follow the landing procedures as outlined in the I	POH.
Probable Cause	
The pilot forgot to lower the landing gears, therefore, the aircraft landed	d on its belly.
Contributing Factor	
None.	
Safety Action(s)	
None.	
Safety Message and/or Safety Recommendation/s	
None.	
About this Report	
The decision to conduct a limited investigation is based on factors including w the evidence supporting the cause is clear, the level of safety benefit likely to be and that will determine the scope of an investigation. For this occurrence, a conducted, and the Accident and Incident Investigations Division (AIID) has reli- by the affected person/s and organisation/s to compile this limited report. The information supplied in the initial notification, as well as from follow-up desk to of potential safety issues to the industry in respect of this occurrence, as well the industry might want to consider in preventing a recurrence of a similar occ	e obtained from an investigation a limited investigation has been ied on the information submitte report has been compiled using op enquiries to bring awareness as possible safety action/s the
All times given in this report are Co-ordinated Universal Time (UTC) and will b Standard Time is UTC plus 2 hours.	e denoted by (Z). South Africa

### Purpose

In terms of Regulation 12.03.1 of the Civil Aviation Regulations (CAR) 2011 and ICAO Annex 13, 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.

#### Disclaimer

This report is produced without prejudice to the rights of the AIID, which are reserved.

This report is issued by: Accident and Incident Investigations Division South African Civil Aviation Authority Republic of South Africa

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