

REPUBLIC OF NAMIBIA

MINISTRY OF WORKS AND TRANSPORT

DIRECTORATE OF AIRCRAFT ACCIDENT INVESTIGATION

CIVIL AIRCRAFT ACCIDENT REPORT

ACCID/050523/01-04

OPERATION: PRIVATE

AIRCRAFT

REGISTRATION: V5-WOT

LOCATION : LAPA LANGE

NAMIBIA

DATE

: 05 MAY 2023





MINISTRY OF WORKS AND TRANSPORT

Directorate of Aircraft Accident and Incident Investigations

Accident Reference: ACCID/05052023/01-04

Aircraft Accident Investigation Final Report

AIRCRAFT TYPE & REGISTRATION: C182 (V5-WOT)

RELEASE DATE:



Source: Owner

Aircraft Accident Report

DESCRIPTION OF OCCURRENCE: Loss of control in flight and crashed during the landing phase.

TYPE OF OPERATION: Private.

AIRCRAFT TYPE & REGISTRATION: C182 (V5-WOT) LOCATION: GPS: 24° 49' 11" S 018° 11' 25" E Lapa Lange

Airstrip

DATE AND TIME: 2023/05/05 UTC Time of accident 14:00



Foreword

This report presents the factual information, data analysis, conclusions, and safety recommendations reached during the investigation. The purpose of the investigation was to establish the circumstances surrounding this ocurence.

In accordance with the provisions of Annex 13 to the Convention on International Civil Aviation Organization, the accident's analysis, conclusions, and safety recommendations contained therein are intended <u>neither</u> to apportion blame <u>nor</u> to single out any individual or group of individuals. The main objective was to identify the systematic deficiencies and draw lessons, from the occurrence, which might help to prevent accidents and incidents in the future. To this end, many a time, the reader may be interested in whether or not an issue was a direct cause of the accident (that has already taken place), whereas the investigator is mainly concerned with the prevention of future accidents/incidents.

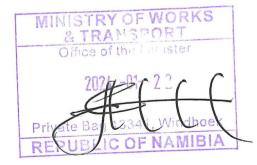
As a result, the usage of this report for any purpose other than (the latter and spirit of Annex 13 and other relevant statutes) prevention of similar occurrences in the future might lead to erroneous interpretations and applications.



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ABBREVIATION

AMO - Aircraft Maintenance Organization

PPL - Private Pilot License

DAAII - Directorate of Aircraft Accident and Incident Investigation

ICAO - International Civil Aviation Organization

CAVOK - Ceiling and Visibility Ok

NCAA - Namibia Civil Aviation Authority

MPI - Mandatory Periodic Inspection

UTC - Universal Time Co-ordinated

FDR - Flight data recorder

LOC-I - Lost of control in flight

CVR - Cockpit voice recorder

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REPUBLIC OF NAMIBIA

Form Number: DAAII RPT 3A

ACCID/05052023/01-04

Ministry of Works and Transport



DIRECTORATE OF AIRCRAFT ACCIDENT INVESTIGATION ACCIDENT REPORT – EXECUTIVE SUMMARY

(LIBERTY)										
Aircraft Registration	V5-WOT	Da	te of Accident	5 th N	/lay, 20	23	Tin	ne of Accid	dent	12:00 UTC
Type of Aircraft	CESSNA	CESSNA 182			Type of Operation Private					
Pilot- In - command License Type PPL(PA			PPL(PA73530)		Age 54 License Valid Val			Valid		
Pilot-In-command Flying Experience Total Flying Hours			ırs	99.8		Hours on Type 99.8				
Last point of departure FYWE										
Next point of intended landing FYLL										
Location of the acciden	t site with r	eferen	ice to easily defin	ed ge	eograp	hical	points (C	SPS readin	ngs if po	ssible)
GPS: 24° 49' 11" S 018°	11' 25" E L	apa La	ange Airstrip							
Meteorological Inform		Wind Direction: 010°, Wind speed: 12 kts CAVOK, Temperature: 30° C Dew point: unknown, Air pressure: unknown								
Number of people on b	oard 1+	1	No. of people	inju	red	0	No. of	people kil	led	0
Synopsis										
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On the 05th. May 2023, at around 11H00 UTC time, a privately owned Namibian registered aircraft V5-WOT got airborne from Eros airport for a private flight to Lapa Lange airstrip (FYLL). On Board were the pilot and one passenger.

The flight from Eros airport to Lapa Lange airstrip (FYLL) was one hour. On approach to FYLL the pilot called the operator of the airstrip by mobile phone from the air to confirm the joining procedures and the surface condition at the airstrip at that moment. The operator confirmed that the surface conditions were fine and the prevailing wind was North West and mild. The pilot flew a wide circuit and then a low pass by the runway for inspection and familiarization with the runway and airfield conditions. After the low fly pass was completed the aircraft made a final approach for runway 01.

The approach phase was normal until almost when the aircraft was about to touch down on the runway. The aircraft encountered a severe windshear from the west that lifted the aircraft over the fence of the runway and crushed into the vegetation. The aircraft stroked a sheppard tree first, uprooted the tree and take it along for a distance of 15 meters. It stroked another tree and came to a stop facing the easterly direction. The aircraft sustained substantial damage especially to the undercarriage, berry, right wing, propeller and a lot of dent of the airframe. There were no injuries sustained by the pilot neither by the passenger.

Directorate of Aircraft Accident and Incident Investigation (DAAII) was informed telephonically by an eye witness on the same day. DAAII appointed an Investigator- in- charge to conduct the investigation and issue the final report. The investigation was commenced immediately.

The Minister of Works and Transport Ministry was responsible for the release of the official final accident report

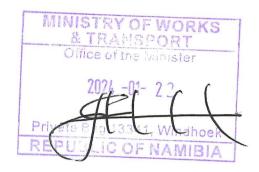
The aircraft had a valid Certificate of airworthiness issued by the Namibian Civil Aviation Authority on the 15/07/2022 with an expiry date of 13/07/2023. Certificate number 431/2018.

Cause:.	Loss	of	control(LOC-I)

Contribution Factor: shear wind gust

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May 5, 2023



AIRCRAFT ACCIDENT REPORT

Name of Owner/Operator

: RSR Maintenance (pty) LTD

Manufacture

: Textron Aviation

Model

: C182

Nationality

: Namibian : V5-WOT

Registration Location

: GPS: 24° 49' 11" S 018° 11' 25" E Lapa Lange Airstrip

Date

: 05th May, 2023 Time: 12:00 UTC

All times given in this report are in Co-ordinated Universal Time (UTC).

Disclaimer:

The report is given without prejudice to the rights of the Directorate of Aircraft Accident and Incidents Investigations, which are reserved.

Purpose of the Investigations:

In terms of the Namibia Civil Aviation Act (Act No. 6 of 2016) and ICAO Annex 13, this report was compiled in the interest of the promotion of aviation safety and the reduction of risk of aviation accidents or incidents and **not to establish blame or legal liability.**

This report contains facts relating to aircraft accidents or incidents that have been determined at the time of issue. The report may therefore be revised should new and substantive facts are made available to the investigator (s).

1. FACTUAL INFORMATION

1.1 History of Flight

- 1.1.1 According to the pilot, on the 05th of May 2023, a Namibian registered Cessna 182 aircraft got airborne from Eros airport Runway 01 at 11H00 UTC for a private flight to Lapa Lange Airstrip in the Marietal area. The pilot and his one passenger were on board the aircraft.
- 1.1.2 The one hour flight from Eroa Airport to Lapa Lange Airstrip was normal and with speed around 120 kts. According to the pilot when the aircraft approached Lapa Lange airstrip area before joining the circuit, the pilot contacted the airstrip operator by mobile phone to confirm the joining procedures and the surface weather condition. The pilot was briefied that the surface conditions were fine and the prevailing windwas North North Westerly and mild. There was two aircraft in the circuit one infront and the other behind.
 - 1.1.3 The pilot flew a wide circuit to allow the first aircraft to vacate the runway. Alow flying pass was done over the airstrip to inspect the runway condition. During the low fly pass both windsocks indicated a North Westerly wind.

- 1.1.4 On final approach for runway 01 just before touched down the aircraft experienced severe windshear from the left (west) that lifted the aircraft from the runway over the fence where it crashed.
- 1.1.5 The aircraft first stroked a shepherd tree, uproot the tree, and dragged it for about 15 meters before striked another tree and came to rest facing 90 degrees from the direction of flight. The aircraft was substantially damaged but the pilot and the passenger did not sustained any injuries.

1.2 Injuries to person

Injuries	Pilot	Crew	Pass.	Other
Fatal	0	-	0	
Serious	0	-	0	-
Minor	0	-	0	-
Total	0		0	

1.3 Damage to Aircraft

The aircraft was substantially damaged.



Figure 1: Damage to the lower fuselage, undercarriage, propeller and the wings.

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Private Flag 1834 I Windhoek
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1.4 Other Damage

1.4.1 There was damaged to two shepperd trees.



Figure 2: Damage to the two shepperd tree..

1.5 Personnel Information

Nationality	Namibian	***	**************************************		
Licence No PA73530	Gender	Femalee	Ag 71		
Licence valid	Valid	Type Endorsed	Yes		
Type Ratings	SEP (land)				
Medical	valid				
Restrictions	Valid with corrective for defective near vision.				
Previous Accidents	unknown				
Total Hours	99.8				
Total Past 90 Days	53.4		TOFWOOKS		
Total on Type Past 90 Days	53.4 MINISTRY OF CORT				
Total on Type	99.8 Office of the Minister				

1.6 Aircraft Information

Airframe:

Type	C 182
Manufacture	Textron Aviation
Total Airframe Hours (At time of Accident)	5365.2
Last MPI (Date & Hours)	07-02-2023@ 5326.7
Hours since Last MPI	38.5
C of Airworthiness	15-07-2022 (Expiry 13-07-2023)
Operating Categories	Standard

Engine:

Continental
069965-R
732.8

Propeller

Туре	Hartzell	
Part no	PHC-G3YF-1RF	
S/N	NT371B	

1.7 Meteorological Information

Wind direction	010°	Wind speed	12G26kts @12:00	Visibility	CAVOK
Temperature	30°c	Cloud cover	-	Cloud base	-
Dew point	Unknown				

1.8 Aids to Navigation

1.8.1 The aircraft was equipped with standard navigational equipment as approved by the regulator.

1.9 Communications.

1.9.1 The aircraft was equipped with standard communication equipment as approved by the Regulator for the type.

There were no recorded defects with the communication system prior to the accident flight

1.10 Aerodrome Information

The aerodrome is at an elevation of 3897 ft above sea level. There is a gravel runway 01/19 measuring 1.6 km and 16 meters wide. There are two wind socks on the airstrip the main one is located midway of the runway and the other close to the hangar. The runway is fenced off with a two

meter animal proof fence.

Prive 5 (1334), Wildhoek REPUT OF NAMIBIA May 5, 2023

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Figure 3: Lapa lange airstrip.

1.11 Flight Recorders

1.11.1 The Aircraft was not equipped with a flight data recorder (FDR) or a cockpit voice recorder (CVR) nor was it required by the relevant aviation regulations for this type.

1.12 Wreckage distribution and Impact Information

1.12.1 The aircraft wreckage was intact. No part detached from the main wreckage. The aircraft impacted two trees before it came to a stop.

1.13 Medical and Pathological Information

1.13.1. No medical or pathological investigations were conducted because of this accident, nor were they Required.

1.14 Fire

1.14.1. There was no pre- or post-impact fire.

1.15 Survival Aspects.

1.15.1 This was a survivable accident as the impact forces were minimal.

1.16 Tests and Research.

1.16.1. None was done and none was required.



1.17 Organizational and Management Information.

1.17.1. This was a private flight conducted under the provisions of Part 91 of the Civil Aviation Regulations.

1.18 Additional Information

1.18.1 No

1.19 Useful or Effective Investigation Techniques.

1.19.1 Not applicable.

2. ANALYSIS

MACHINE

2.1 The records obtained from the flight folio and aircraft mnual reveal that the aircraft was airworthy at the time of the accident. ALL inspection were carried out.

2.2 ENVIROMENT

The weather was fine during the approached phase, but the unforeseen suddenly wind shear that develop on the airstrip made the pilot to loose control.

2.3 PILOT

The pilot had a Private Pilot License (PPL). According to the logbook the pilot flew a total of 99.8 hours, of which all were on the aircraft type at the time of the accident.

The pilot had a valid class 2 aviation medical certificate that was issued on 24 October 2022 with an expiry date of 31 October 2023.

3. CONCLUSION

3.1 Findings

- 3.1.1 The aircraft had a valid Certificate of airworthiness issued by the Namibian Civil Aviation Authority on the 15/07/2022 with an expiry date of 13/07/2023. Certificate number 431/2018.
- 3.1.2 The pilot a Namibian citizen was a holder of a Private Pilot License (PPL) PA 73530 issued by the Namibian Civil Aviation Authority and a valid medical certificate valid until 31/10/2023.
- 3.1.3 The airstrip runway was found to be in a good condition for aviation activities.
- 3.1.4 The last Maintenance inspection that was carried out on the aircraft was the Mandatory Periodic Inspection. The inspection was certified on the 13th of February 2023 at 5326.73 airframe hours. The aircraft flew 38.5 hours since the last inspection was carried out.
- 3.1.5 There was no defect reported prior to the accident and the maintenance records indicated that the aircraft was certified, equipped and maintained in accordance with existing regulations and approved procedures.



- **3.2.** Cause
- 3.2.1 Loss of control in flight (LOC-I).
- 3.3.1 Contributing factor
- 3.3.1 Windshear.
- 4.0. Safety Recommendations: None

Thomas H.Herman Investigator-in-Charge

Date: 22/01/2024

Released by:

Hon John Mutorwa, MP

MINISTER: MINISTRY OF WORKS AND TRANSPORT

Date: 22.1.2024

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