

Section/division Accident and Incident Investigations Division

Form Number: CA 12-57

LIMITED OCCURRENCE INVESTIGATION REPORT - FINAL

Reference Number	CA18/2/3/10179														
Classification	A	Accident			Da	te	26 Jur	6 June 2022			Ti	me	ne 1428Z		
Type of Opera	ition	Private (F	Private (Part 94)												
Location															
Place of Departure		kopane Aerodrome (FAQR) popo Province			Р							lokopane Aerodrome FAQR), Limpopo Province			
Place of Occurrence	Мо	oorddrift Dairy Farm, Limpopo Province													
GPS Co-ordinates		Latitude	24°16'02" S			Longitude		02	028°57'50" E			Elevation		36	608 ft
Aircraft Information															
Registration	ZU-EZK	ZU-EZK													
Make; Model; S/N Ekolot Topaz, KR-030 (Serial Number: 30-01-08)															
Damage to Aircraft		Destroye	Destroyed				Total Aircraft Hou		aft Hou	rs (616.6				
Pilot-in-command															
Licence Type	Nat	ational Pilot Licence (NPL) A		PL) A		Gend	Gender		Male			Age		37	
Licence Valid	Yes	3	Total Hours 377		377		Total Hou			urs o	ırs on Type			105.3	
Total Hours 30 2.7					Total Flying on Type Past 90 Days						7				
People On-boa	ırd	1 + 1	Injuries 2		F	atali	ties	ies 0			Other (on grou		nd)	0	
What Hannan				•							•			U U	

What Happened

On Sunday, 26 June 2022 at 1422Z, a pilot and a passenger on-board an Ekolot Topaz KR-030 aircraft, registered ZU-EZK, took off on a private scenic flight from Mokopane Aerodrome (FAQR) in Limpopo province with the intention to land back at the same aerodrome. The flight was conducted under visual flight rules (VFR) by day and under the provisions of Part 94 of the Civil Aviation Regulations (CAR) 2011 as amended.

The pilot reported that he conducted a pre-flight check and took off from Runway 18 (RWY18), routing towards Moorddrift Dairy Farm whilst climbing to 500 feet (ft) above ground level (AGL). He also maintained radio contact with another aircraft which was inbound to FAQR. About four minutes into the flight, the passenger felt sick and the pilot decided to fly back to FAQR. He planned to route overhead Moorddrift Dairy Farm and make a 180 degrees level turn with one (1) notch flaps selected.

Meanwhile, the passenger who meant to adjust the cabin air inlet, accidentally closed the throttle, causing the nose and left wing to drop suddenly. As a resolve, the pilot applied full power and pulled back on the control stick and right rudder to level the wings and raise the nose, however, the aircraft had already entered a spiral dive at low level. The pilot was unable to recover the aircraft due to low altitude. He stated that the only thing he could do was to pull back on the control stick to level the aircraft so as to avoid crashing on the ground nose first.

The aircraft collided with power lines and crashed on the ground with its right wing first before coming to rest on its belly. The pilot and the passenger were injured during the accident sequence and were rushed to the hospital. The aircraft was destroyed on impact.

SRP date: 14 February 2023 Publication date: 15 February 2023



Figure 1: An aerial view of the accident scene. (Source: Google Earth)



Figure 2: Damage to the aircraft and the power lines. (Source: AIID)



Figure 3: Position of the passenger throttle lever (red arrow). (Source: Pilot)



Figure 4: ZU-EZK Flight Log. (Source: Pilot)

Findings

The Pilot

The pilot was initially issued a National Pilot Licence (NPL) on 16 February 2019. The licence
was reissued on 26 February 2021 with an expiry date of 25 February 2023. The pilot had a
Class 2 medical certificate that was issued on 3 August 2020 with an expiry date of 3 August
2025 and with a restriction to wear corrective lenses.

Aircraft information

- The aircraft had an Authority to Fly (ATF) permit that was initially issued on 1 December 2021 with an expiry date of 31 December 2022. The aircraft's Certificate of Registration (C of R) was issued on 4 November 2021.
- The last mandatory periodic inspection (MPI) on the aircraft was carried out on 29 July 2021 and the Certificate of Release to Service (CRS) was issued on 29 July 2021 at 605.6 hours, with an expiry date of 10 January 2023 or at 705.6 airframe hours, whichever comes first.
- The aircraft was maintained by an approved person (AP) with an authorised AP certificate that was issued by the Regulator (SACAA) on 1 August 2021 with an expiry date of 31 July 2022.
- The aircraft collided with the power lines and crashed on the ground with its right wing first.
 The on-board Garmin GPS flight log recorded the flight duration as 6 minutes after take-off
 from FAQR at 1422Z. The pilot and the passenger were injured during the accident sequence
 and were taken to the hospital. The aircraft was destroyed during the accident sequence.

Probable Cause

Loss of engine power in-flight which led to loss of control of the aircraft and the subsequent collision with the power lines.

Contributing Factors

The passenger accidentally knocked close the power throttle in-flight.

Insufficient height for recovery.

Safety Action(s)

None.

Safety Message

There should be a clear warning or guard on the passenger side throttle control lever to warn the passenger not to touch/disturb.

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About this Report

The decision to conduct a limited investigation is based on factors including whether the cause is known and the evidence supporting the cause is clear, the level of safety benefit likely to be obtained from an investigation and that will determine the scope of an investigation. For this occurrence, a limited 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 limited report. The report has been compiled using information supplied in the initial notification, as well as from follow-up desk top enquiries 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 occurrence.

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.

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.

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This report is issued by:

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