



Section/division Accident and Incident Investigations Division

Form Number: CA 12-57

# LIMITED ACCIDENT INVESTIGATION REPORT

Classification       Accident       Date       31 July 2021       Time       1140Z         Type of Operation       Private (Part 94)       Interval       Interval <th>Reference Numb</th> <th>oer</th> <th>CA18/2/</th> <th>3/10085</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Reference Numb	oer	CA18/2/	3/10085									
Location         Place of Departure       Drakensberg Gardens Aerodrome (FADZ), KwaZulu-Natal Province       Place of Intended Landing       Barkley East (FABF), Eastern Cape Province         Place of Accident       Barkley East Aerodrome       Eastern Cape Province         GPS Co-ordinates       Latitude       S 30°58°12.08"       Longitude       E 027°36′44.48"       Elevation       5676 feet         Aircraft Information       ZU-DAS       Longitude       E 027°36′44.48"       Elevation       5676 feet         Model/Make       Bushbaby, Kit Planes for Africa (Serial no. 38)       Total Aircraft Hours       734.0       734.0         Pilot-in-command       Licence (ATPL)       Gender       Male       Age       32         Licence Valid       Yes       Total Flying Hours       5637.3       5637.3         People       1 + 0       Injuries       0       Fatalities       0       Other (on ground)       0         What Happened       I + 0       Injuries       0       Fatalities       0       Other (on ground)       0	Classification Acc		ident Da			31 July 20	21	Tim	Time		1140Z		
Place of Departure       Drakensberg Gardens Aerodrome (FADZ), KwaZulu-Natal Province       Place of Intended Landing       Barkley East (FABF), Eastern Cape Province         Place of Accident       Barkley East Aerodrome       Elevation       5676 feet         GPS Co-ordinates       Latitude       S 30'58'12.08"       Longitude       E 027'36'44.48"       Elevation       5676 feet         Aircraft Information       ZU-DAS       Total Aircraft Hours       734.0       Place of Aircraft       Substantial       Total Aircraft Hours       734.0         Pilot-in-command       Licence (ATPL)       Gender       Male       Age       32         Licence Valid       Yes       Total Flying Hours       5637.3       5637.3         People       1 + 0       Injuries       0       Fatalities       0       Other (on ground)       0         What Happened       I       I       Injuries       0       Fatalities       0       Other (on ground)       0	Type of Operation	on	Private	(Part 94)									
Aerodrome (FADZ), KwaZulu-Natal ProvinceLandingEastern Cape ProvincePlace of AccidentBarkley East AerodromeGPS Co-ordinatesLatitudeS 30°58'12.08"LongitudeE 027°36'44.48"Elevation5676 feetAircraft InformationRegistrationZU-DASModel/MakeBushbaby, Kit Planes for Africa (Serial no. 38)734.0Damage to AircraftSubstantialTotal Aircraft Hours734.0Pilot-in-commandLicence TypeAirline Transport Pilot Licence (ATPL)GenderMaleAge32Licence ValidYesTotal Flying Hours5637.370People On-board1 + 0Injuries0Fatalities0Other (on ground)0What HappenedLLLLLLLLL	Location		1										
GPS Co-ordinates       Latitude       S 30°58'12.08"       Longitude       E 027°36'44.48"       Elevation       5676 feet         Aircraft Information       ZU-DAS       Elevation       5676 feet         Model/Make       Bushbaby, Kit Planes for Africa (Serial no. 38)       Total Aircraft Hours       734.0         Damage to Aircraft       Substantial       Total Aircraft Hours       734.0         Pilot-in-command       Elevation       32         Licence Type       Airline Transport Pilot Licence (ATPL)       Gender       Male       Age       32         Licence Valid       Yes       Total Flying Hours       5637.3       People       1+0       Injuries       0       Fatalities       0       Other (on ground)       0         What Happened       It of the transport Pilot       It of the transport Pilot       It of the transport Pilot       Other (on ground)       0	Place of Departure		Aerodrome (FADZ),										
Aircraft Information       ZU-DAS         Registration       ZU-DAS         Model/Make       Bushbaby, Kit Planes for Africa (Serial no. 38)         Damage to Aircraft       Substantial         Total Aircraft Hours       734.0         Pilot-in-command       Total Aircraft Hours         Licence Type       Airline Transport Pilot Licence (ATPL)       Gender       Male       Age       32         Licence Valid       Yes       Total Flying Hours       5637.3       5637.3         People       1 + 0       Injuries       0       Fatalities       0       Other (on ground)       0         What Happened       I       Injuries       I       Injuries       I       I       Injuries       I       I       I       I       Injuries       I <th>Place of Accident</th> <td></td> <td>Barkley</td> <td>East Aerodi</td> <td>rome</td> <td>·</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Place of Accident		Barkley	East Aerodi	rome	·							
Registration       ZU-DAS         Model/Make       Bushbaby, Kit Planes for Africa (Serial no. 38)         Damage to Aircraft       Substantial       Total Aircraft Hours       734.0         Pilot-in-command       Image to Aircraft Hours       734.0       Image to Aircraft Hours       734.0         Licence Type       Airline Transport Pilot Licence (ATPL)       Gender       Male       Age       32         Licence Valid       Yes       Total Flying Hours       5637.3       Image to Aircraft (Image Age)       0         People       1 + 0       Injuries       0       Fatalities       0       Other (on ground)       0         What Happened       Image to Aircraft       Image to Aircraft (Image Age)       Image Age)       Image Age)       Image Age)	GPS Co-ordinates		Latitude	ıde S 30°58'12.08"		Longitude	E 027	E 027°36'44.48"		Elevation		5676 feet	
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Damage to Aircraft       Substantial       Total Aircraft Hours       734.0         Pilot-in-command       Image: Command of the second of the seco	Registration	istration ZU-DAS											
Pilot-in-command       Airline Transport Pilot       Gender       Male       Age       32         Licence Type       Airline Transport Pilot       Gender       Male       Age       32         Licence Valid       Yes       Yes       Total Flying Hours       5637.3         People       1+0       Injuries       0       Fatalities       0       Other (on ground)       0         What Happened       Key       Key       Key       Key       Key       Key       Key	Model/Make		Bushba	oy, Kit Plane	es for A	frica (Serial	no. 38)						
Licence Type       Airline Transport Pilot Licence (ATPL)       Gender       Male       Age       32         Licence Valid       Yes       Total Hours on Type       42.6       Total Flying Hours       5637.3         People       1 + 0       Injuries       0       Fatalities       0       Other (on ground)       0         What Happened       Image: State of the state of	Ū		Substantial			Total Aircraft Hours			7	734.0			
Licence (ATPL)       Total Flying Hours       5637.3         Total Hours on Type       42.6       Total Flying Hours       5637.3         People       1 + 0       Injuries       0       Fatalities       0       Other (on ground)       0         What Happened       Image: State of the s	Pilot-in-comman	d				1							
Licence Valid       Yes         Total Hours on Type       42.6         People       1 + 0         On-board       Injuries         What Happened	Licence Type					Gender	Male	Male		Age		3	2
People     1 + 0     Injuries     0     Fatalities     0     Other (on ground)     0       What Happened     Image: Contract of the second seco	Licence Valid								ľ				
On-board ground) ground)	Total Hours on Ty	/pe	42.6			Total Flyin	g Hours		5	637.3			
	On-board	1+	0 Inji	uries	0	Fatalities		0		· ·	n		0
On 31 July 2021 at approximately 1140Z, a pilot on-board a Bushbaby aircraft with registration ZU-	what Happened												
DAS took off from Drakensberg Gardens (FADZ), KwaZulu-Natal province, to Barkley East (FABF), Eastern Cape province. This was a private flight conducted under visual meteorological conditions by day and under the provisions of Part 94 of the Civil Aviation Regulations (CAR) 2011 as amended. The pilot reported that on arrival at FABF, he completed two runway inspections in preparation for	DAS took off fro Eastern Cape p by day and un amended.	m D rovir der	rakensbence. This the prov	erg Garden was a priv isions of I	is (FAE /ate flig Part 94	DZ), KwaZu ght conduct 4 of the C	lu-Nata ed und ivil Avia	l provin er visua ation R	ice, to al met egula	Barkle teorolog tions (	ey Eas gical (CAR)	st (F/ cond ) 201	ABF), itions 1 as

The pilot reported that on arrival at FABF, he completed two runway inspections in preparation for landing on Runway 36. During the landing roll on the grass runway, the aircraft veered off to the left-side (of the runway). The pilot shut down the engine whilst the aircraft was veering off to the left-side. As the aircraft veered off, the left wheel ran over a shallow ditch, which caused the aircraft to tilt forward and the stationery propeller to contact the ground.



Figure 1: The damaged propeller. (Source: Pilot)

Post-accident inspection revealed the following damages:

- The aircraft was damaged during the accident sequence at (FABF) and was recovered to New Tempe for repairs.
- The left- and right-side main landing gear axles were bent due to the aircraft running over a ditch, and the propeller was also damaged.
- The last annual inspection was carried out on 3 May 2021 at 719.2 hours and the aircraft
  was flown a further 14.8 hours since the last annual inspection. The bent left- and right-side
  main landing gear axles were removed and replaced with new ones. The right-side wheel
  assembly was found to be unserviceable; it was removed and replaced with a new one; the
  tyre was fitted to the new wheel assembly and balanced; the brake system was topped up
  and bled.

#### Probable Cause:

The aircraft veered off to the left-side of the runway; the left wheel ran over a shallow ditch which caused the aircraft to tilt forward and the stationery propeller to contact the ground.

### Safety Action

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**.

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## 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

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