

Section/division Accident and Incident Investigations Division

Form Number: CA 12-57

LIMITED SERIOUS INCIDENT INVESTIGATION REPORT

Reference Number		CA18/3/2/1364											
Classification	Seri	ious Incident D		Date		16 August 2021		T	ime		1350Z		
Type of Operation		Private (Part 91)											
Location													
Place of Departure		Lanseria International Airport (FALA), Gauteng Province				Place of Intended Landing			Ondangwa Airport (OND), Namibia				
Place of Incident		Overhea	d Nort	h West pro	ovince	during o	limb to f	light	level 13	35			
GPS Co-ordinates		Latitude	S 25°20'2.01"		Long	gitude	E 027°10'24.61"		4.61"	Elevation		5280f	t
Aircraft Informat	ion										•		
Registration		ZS-JNE											
Model/Make		421C –	Cessna	a Aircraft C	ompa	any							
Damage to Aircraft		None				Total Aircraft Hours				903			
Pilot-in-comman	d								•				
Licence Type		Commercial Pilot Licence			•	Gender	Male			Age		37	
Licence Valid		Yes			•						•		
Total Hours on Type		45				Total Flying Hours				500			
People On-board	1+	0 Inju	ıries	0		Fatalitie	es	0		Other (or ground)	1		0
What Happened													

On 16 August 2021 at approximately 1350Z, a pilot on-board a Cessna 421C aircraft with registration ZS-JNE was on a private flight from South Africa to Namibia. The aircraft took off from Lanseria International Airport (FALA) in Gauteng province with the intention to land at Ondangwa Airport (OND) in Namibia. The pilot conducted a pre-flight inspection, followed by an uneventful take-off from Runway 07. The aircraft routed via Hartbeespoort area and towards North West province. The flight was conducted during day light under the provisions of Part 91 of the Civil Aviation Regulations (CAR) 2011 as amended.

According to the pilot, he noted that the left wing was dropping and was getting worse whilst climbing to 13 500 feet (ft) or flight level (FL) 135. At this time, the aircraft was flying overhead Pilanesberg Airport (FAPN). The pilot declared an emergency by broadcasting a PAN-PAN call and a Mayday call to FALA air traffic control (ATC). The pilot reported his situation and flight position, thereafter, the ATC diverted the pilot to FAPN as the aircraft was in that vicinity. The pilot executed a 270° turn to the right-side to compensate for left-wing low attitude for a stable approach at FAPN. The pilot landed the aircraft safely, and he did not sustain injuries during this flight.

SRP date: 18 January 2022 Publication date: 21 January 2022



Figure 1: The aircraft post-incident with insets of right- and left-wing fuel tanks.

After the aircraft landed safely, the pilot visually checked the fuel in each tank and noted that the left fuel tank had more fuel than the right fuel tank. The pilot further stated that during flight whilst conducting the checklist in the cockpit, he was distracted by an incoming call on his cellular phone, hence, he missed noting that both engines were selected to feed from the right-side fuel tank as he took off. Following the fuel upliftment in the right tank at FAPN, the aircraft took off to its intended destination (Namibia) as planned.

The pilot was issued a Commercial Pilot Licence by the Regulator (South African Civil Aviation Authority) on 18 November 2020 with an expiry date of 30 November 2021. His Class 1 medical certificate was issued by the Regulator on 19 November 2020 with an expiry date of 30 November 2021. The aircraft type was endorsed on his licence.

The aircraft was issued a Certificate of Airworthiness by the Regulator on 17 March 2021 with an expiry date of 31 March 2022. No other anomalies were reported on any of the aircraft components in the logbooks and defect log packs. The aircraft maintenance organisation (AMO) that serviced the aircraft issued the aircraft a Certificate of Release to Service (CRS) on 2 December 2020 at 5073.7 hours which would lapse on 1 December 2021 or at 5185.5 total hours, whichever occurs first.

Probable Cause:

The cause of the aircraft flying with the left-wing low was due to an imbalance of fuel in the fuel tanks, which resulted in the left wing dropping because the left fuel tank had more fuel (heavier) than the right tank.

CA 12-57	Doto: 10 June 2021	Dogo 2 of 2
1 CA 12-57	Date: 18 June 2021	Page 2 of 3

Contributing factor:

Cellphone distraction whilst engaged in checklist procedures in the cockpit.

Safety Action

None.

Safety Message and/or Safety Recommendation

Pilots should ensure that there are no distractions such as active mobile phones during operation of aircraft.

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

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

CA 12-57	Date: 18 June 2021	Page 3 of 3
----------	--------------------	-------------