



**REPUBLIC OF KENYA**

**MINISTRY OF TRANSPORT, INFRASTRUCTURE, HOUSING, URBAN**

**DEVELOPMENT AND PUBLIC WORKS**

**STATE DEPARTMENT FOR TRANSPORT**

**AIRCRAFT ACCIDENT INVESTIGATION**

**PRELIMINARY AIRCRAFT ACCIDENT REPORT TO**

**CESSNA 150**

**REGISTRATION 5Y-BBD**

**ORLY AIRSTRIP**

**ON 26 JUNE 2021**

## SUMMARY OF THE ACCIDENT

OPERATOR/OWNER	:	Kenya School of Flying
AIRCRAFT TYPE/ MANUFACTURER	:	C150/Cessna (Textron)
YEAR OF MANUFACTURE	:	1977
AIRCRAFT REGISTRATION	:	5Y-BBD
AIRCRAFT SERIAL NUMBER	:	150-0325
DATE OF REGISTRATION	:	18 March 2011
NUMBER AND TYPE OF ENGINE	:	One-O-320-A2B
ENGINE SERIAL NUMBER	:	L21585-27A
DATE OF OCCURRENCE	:	26 June 2021
TIME OF OCCURRENCE	:	15:17pm (0910Z)
LOCATION OF OCCURRENCE	:	Orly Airstrip
TYPE OF FLIGHT	:	Training
PHASE OF FLIGHT	:	Landing
PERSONS ONBOARD	:	1
INJURIES	:	Nil
NATURE OF DAMAGE	:	Destroyed
CATEGORY OF OCCURRENCE	:	Accident
PIC'S FLYING EXPERIENCE	:	SPL/17hours

*All times given in this report is Coordinated Universal Time (UTC), with East African Local Time in Parenthesis*

## **OBJECTIVE**

This report contains factual information which has been determined up to the time of publication. The information in this report is published to inform the aviation industry and the public of the general circumstances of the accident.

This investigation has been carried out in accordance with The Kenya Civil Aviation (Aircraft Accident and Incident Investigation) Regulations, 2018 and Annex 13 to the ICAO Convention on International Civil Aviation.

The sole objective of the investigation of an accident or incident under these Regulations shall be the prevention of accidents and incidents. It shall not be the purpose of such an investigation to apportion blame or liability.

## **Investigation Process**

The accident involving the C150 type of aircraft, registration 5Y-BBD was notified to the Aircraft Accident Investigation Department (AAID), State Department for Transport (SDT) of the Ministry of Transport, Infrastructure, Housing, Urban development, and Public Works through a phone call by Kenya School of Flying Ltd.

Under the provisions of Annex 13 to the Convention on International Civil Aviation, Kenya civil aviation act, and regulations, a team of AAID investigators was sent to the accident site on 28 June 2021 for initial onsite investigation and witness interviews.

After the initial on-site investigation phase, the occurrence was classified as an ‘Accident’ owing to the extent of damage to the Aircraft.

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## **LIST OF ABBREVIATIONS/GLOSSARY OF TERMS**

AAID	-	Air Accident Investigation Department
AOC	-	Air Operation Certificate
ATC	-	Air Traffic Services
CPL	-	Student Pilot License
ICAO	-	International Civil Aviation Organization
KCAA	-	Kenya Civil Aviation Authority



## **SYNOPSIS**

The report describes the accident to Cessna 150 of aircraft, registration 5Y-BBD with one student pilot on a solo flight. On 26<sup>th</sup> June 2021, the Air Accident Investigation unit at the Ministry of Transport, Infrastructure and Urban Development was notified of an accident involving a Cessna150 type of aircraft, registration 5Y-BBD operated by Kenya School of Flying at Orly Airpark. The aircraft was on a flight training exercise with a student pilot on a first solo flight. According to the preliminary information obtained from the instructor, the student pilot had obtained all the basic training required and was scheduled for a first solo flight.

# 1. FACTUAL INFORMATION

## 1.1 History of the Flight



**Figure 1:** The wreckage of the aircraft at the accident site

On 26<sup>th</sup> June 2021, the Air Accident Investigation unit at the Ministry of Transport, Infrastructure and Urban Development was notified of an accident involving a Cessna150 type of aircraft, registration 5Y-BBD operated by Kenya School of Flying at Orly Airpark. The aircraft was on a flight training exercise with a student pilot on a first solo flight. According to the preliminary information obtained from the instructor, the student pilot had obtained all the basic training required and was scheduled for a first solo flight.

At 1810 hours (1510z) the student pilot took-off and did a good circuit and made a successful approach and touched-down on the threshold runway 10 but lost control on ground roll for full-stop. The aircraft drifted to the left off the runway and entered the grass and flipped upside down. The student pilot managed to escape the aircraft unhurt. The aircraft sustained substantial damage

## **1.2 Injuries to Persons**

**Table 1:** Injury chart

<b>Injuries</b>	<b>Crew</b>	<b>Passenger</b>	<b>Others</b>	<b>Total</b>
<b>Fatal</b>	0	0		0
<b>Serious</b>	0	0		0
<b>Minor/none</b>	1	0		0
<b>Total</b>	1	0		1

## **1.3 Damage to Aircraft**

The aircraft was substantially damaged

## **1.4 Other Damages**

Nil

## **1.5 Student Pilot**

The student pilot was 19 years old. She held a valid student pilot license issued on 30<sup>th</sup> March 2021. She also held a valid medical certificate with no limitations. By the time of the accident the student pilot had a total of 17 hours.

## 1.6 Aircraft Information



**Figure 2:** the C150 before the accident

The Cessna 150 registration 5Y-BBD was constructed in 1977. It had a valid certificate of airworthiness issued on 19<sup>th</sup> May, 2021 expiring on 18<sup>th</sup> May, 2022. It had a valid certificate of registration issued on 18<sup>th</sup> November, 2011. It had undergone a major maintenance at 50 hours inspection and released to service on 23 June, 2021.

## 1.7. Meteorological Information.

There was no significant weather

## 1.8 Aids to Navigation

Not applicable

## 1.9 Communication

The aircraft had a two-way radio communication equipment onboard.

## 1.10 Aerodrome Information



**Figure 3:** Orly airstrip

Orly airport is S 01°34'31.2" E36°48'39.6". It is 15 NM by air south of Wilson airport along Kiserian-Isinya road. It has two runways 10/28 and 07/25. Runway 10/28 is 1200m length and 15m wide. Runway 10 is 650m paved (cabro) and 450m murrum. Runway 07/25 is 800m length and 15m width grass runway which is sometimes not advisable for use during wet seasons.

### 1.11. Flight Recorders

The aircraft was not equipped with flight recorders nor was it required to be fitted by KCAA regulations

### **1.12. Wreckage and Impact Information**

Immediately after the aircraft drifted off the runway its nose wheel impacted on a pothole on grass and the aircraft flipped upside down. The nose wheel collapsed and from the fuselage. Both aircraft doors remained intact. The windshield got shattered and broken. The wings also impacted the ground and had few dents.

### **1.13 Medical and Pathological Information**

Not applicable

### **1.14 Fire**

There was no post fire after impact

### **1.15. Survival Aspects**

The accident was survivable

### **1.16. Tests and Research.**

Not applicable

### **1.17. Organization and management information**

Kenya School of Flying has a valid certificate on approved training organization issued on 30<sup>th</sup> April 2021 expiring on 30<sup>th</sup> April, 2022.

### **1.18. Additional Information**

Not applicable

### **1.19 useful or effective investigation techniques**

Not applicable

## **2. CONCLUSION**

Investigation is ongoing to establish cause of the accident.

**Martyn Lunani**

**CHIEF INVESTIGATOR OF ACCIDENTS**

6<sup>th</sup> July 2021