

This investigation has been conducted in accordance with

Annex 13 to the ICAO Convention on International Civil Aviation,

EU Regulation No 996/2010, and

The Civil Aviation (Investigation of Air Accidents and Incidents) Regulation; Legal Notice 16 of 2013.

Under these Regulations, the sole objective of the investigation of an accident or incident is the prevention of accidents and incidents in the future.

It is not the purpose of this investigation to assign fault or blame, and the reporting process should not be used to determine liability.

Preliminary Report

Airbus A320-214 returned to Malta shortly after take-off due to fumes/vapour in the cockpit and forward passenger cabin, on Thursday 17 November 2022



Classification: Serious Incident

OCCURRENCE FILING INFORMATION

• File number BAAI/171122

Responsible entity BAAI [Bureau of Air Accident Investigation]

Occurrence status Serious Incident – Fumes/vapour in cockpit and forward passenger cabin

WHEN

Date Thursday 17 November 2022

Local time 07:44 LT

UTC 06:44 UTC

STATE OF OCCURRENCE: MALTA

Location Shortly after take-off from RWY 23, Malta International Airport

Latitude N/A

Longitude N/A

SEVERITY

Highest damage to aircraft
 Nil

Injury total
 Nil

Third party damage
 Nil

INJURY

Fatalities
 Nil

Serious
 Nil

• Minor Nil

REPORTS

Investigation entity BAAI

Investigation type
 ICAO Annex 13 investigation

Investigation delegated Nil

Final report date This is a preliminary report

LIST OF ORGANISATIONS/ENTITIES/PEOPLE INVOLVED

1. Air Malta

- 2. Malta Air Traffic Services [MATS]
- 3. Transport Malta Civil Aviation Directorate [TM-CAD]
- 4. Malta International Airport [MIA]
- 5. Bureau d'Enquetes et d'Analyses [BEA]
- 6. International Civil Aviation Organisation [ICAO]
- 7. European Network of Civil Aviation Safety Investigation Authority [ENCASIA]

AIRCRAFT DESCRIPTION

Registration 9H-AHS

State of Registry Malta

Flight Number AMC 514

Manufacturer Airbus

Model A320-214

• Year built 2011

Serial number 5086

Aircraft category Passenger Aircraft

Propulsion type Turbofan

Engine manufacturer CFMI

Number of engines Two

Maximum take-off mass N/A

AIRCRAFT OPERATOR

Operator Air Malta

State of operator Malta

State of registration Malta

Type of operation Commercial Scheduled

ITENERARY

Last departure Malta International Airport [MLA, LMML]

Planned destination
 Vienna International Airport [VIE, LOWW]

Actual landing airport Malta International Airport [MLA, LMML]

Flight phase of occurrence Shortly after take-off

NARRATIVE

Narrative language: English

Shortly after take-off from RWY 23, the flight crew noticed fumes, resembling mist with a burnt oil odour, in the cockpit. The same fumes and pungent odour were felt by the cabin crew at the forward galley to the over-wing emergency exit area. The cabin crew stationed at the aft of the passenger cabin, saw the fumes resembling mist in front of the over-wing emergency exit area, however the pungent odour never reached the aft part of the passenger cabin.

Following an assessment of the situation the flight crew donned the oxygen masks as per procedure and the decision was taken to return to base. At 07:44 LT the flight crew declared "PAN PAN" to ATC and prepared for an overweight landing. The crew were informed that all runways were available, and subsequently the crew was given clearance to land on RWY 31. The Rescue and Fire Fighting Services were informed and deployed their equipment to assist if necessary.

The aircraft landed safely on RWY 31 at 08:06 LT. The RFFS personnel informed the crew that in and around the aircraft there was no fire or obvious damage. The aircraft was taxied to Apron 8 Stand 3.

A normal and uneventful disembarkation of passengers and crew was carried out. No damages or injuries were reported.

At the arrival's terminal, all passengers and crew were tested for any possible inhalation of fumes. All persons tested negative.

The Cockpit Voice Recorder (CVR) and the Quick Access Recorder (QAR) data stored in the PCMCIA card, were retrieved by BAAI for further investigation.

The operator's aircraft maintenance section carried out the trouble-shooting necessary as per procedures for smoke / fumes / avionics smoke fault.

Interviews were carried out with the flight crew and the cabin crew.

PROBABLE CAUSE

Narrative language: English

Investigation still underway.

RECOMMENDATIONS

Narrative language: English

Investigation still underway.

GLOSSARY OF ABBREVIATIONS

ATC Air Traffic Control

BAAI Bureau of Air Accident Investigation
BEA Bureau d'Enquetes et d'Analyses

CFMI CFM International CVR Cockpit Voice Recorder

ENCASIA European Network of Civil Aviation Safety Investigation Authority

EU European Union

ICAO International Civil Aviation Organisation

LMML Luqa Airport, Malta

LT Local Time

MATS Malta Air Traffic Services
MIA Malta International Airport

PCMCIA Personal Computer Memory Card International Association

QAR Quick Access Recorder

RFFS Rescue and Fire Fighting Services

RWY Runway

TM-CAD Transport Malta - Civil Aviation Directorate

UTC Universal Coordinated Time