

National Transportation Safety Board

Office of Aviation Safety

Washington, DC 20594



WPR23LA017

ENGINE DATA MONITOR FACTUAL REPORT

February 21, 2023

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A. ACCIDENT

Location: Mesa, Arizona
Date: October 18, 2023
Time: 0744 PDT
Airplane: Cessna 177RG: N727ML

B. ENGINE DATA MONITOR FACTUAL REPORT

Investigator in Charge Eleazar Nepomuceno
 NTSB
 Federal Way, WA
Specialist Elliott Simpson
 NTSB
 Los Angeles, CA

C. SUMMARY

On October 18, 2022, about 0744 Pacific daylight time, a Cessna 177RG, N747ML, was substantially damaged when it was involved in an accident near Mesa, Arizona. The pilot sustained serious injuries. The airplane was operated as a Title 14 Code of Federal Regulations Part 91 personal flight.

A review of preliminary flight track data revealed that the airplane departed Falcon Field Airport (FFZ), Mesa, Arizona, about 0624, and maneuvered to the north of FFZ. About 1 hour and 8 minutes later, the airplane maneuvered back to FFZ. Preliminary Federal Aviation Administration (FAA) air traffic control (ATC) communications revealed that shortly after the airplane was cleared for a right base to final turn, the pilot reported a loss of engine power. The pilot subsequently landed off airport about 0.5 nm short of the runway. The airplane came to rest in a water canal and sustained substantial damage to the left wing.

D. DETAILS OF THE EXAMINATION

The following device was downloaded:

Device Manufacturer/Model: JPI 930 Engine Data Monitor
Serial Number: 03365

1.0 Data Recovery

The device was undamaged and was downloaded normally using the manufacturer's software. Figures 1 and 2 show the front and back of the device.



Figure 1. View of Front of JPI

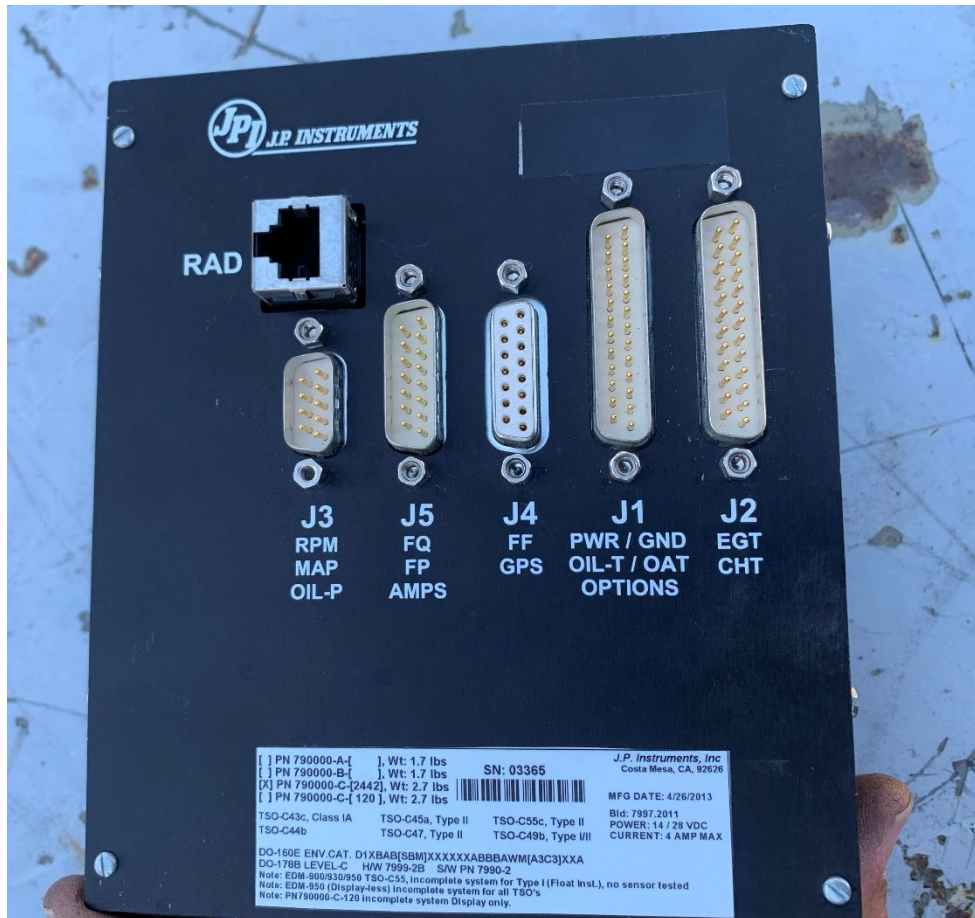


Figure 2. View of Back of JPI

2.0 Data Description

The data extracted included the last 2 flights from October 18, 2022. The accident flight recording began about 0605:46 and ended at about 0731:46.

A graph of the engine data from the accident flight is attached at the end of this report.

Submitted by:

Eleazar Nepomuceno
Aviation Accident Investigator

APPENDIX 1 - WPR23LA017 ENGINE DATA MONITOR - DATA GRAPHS

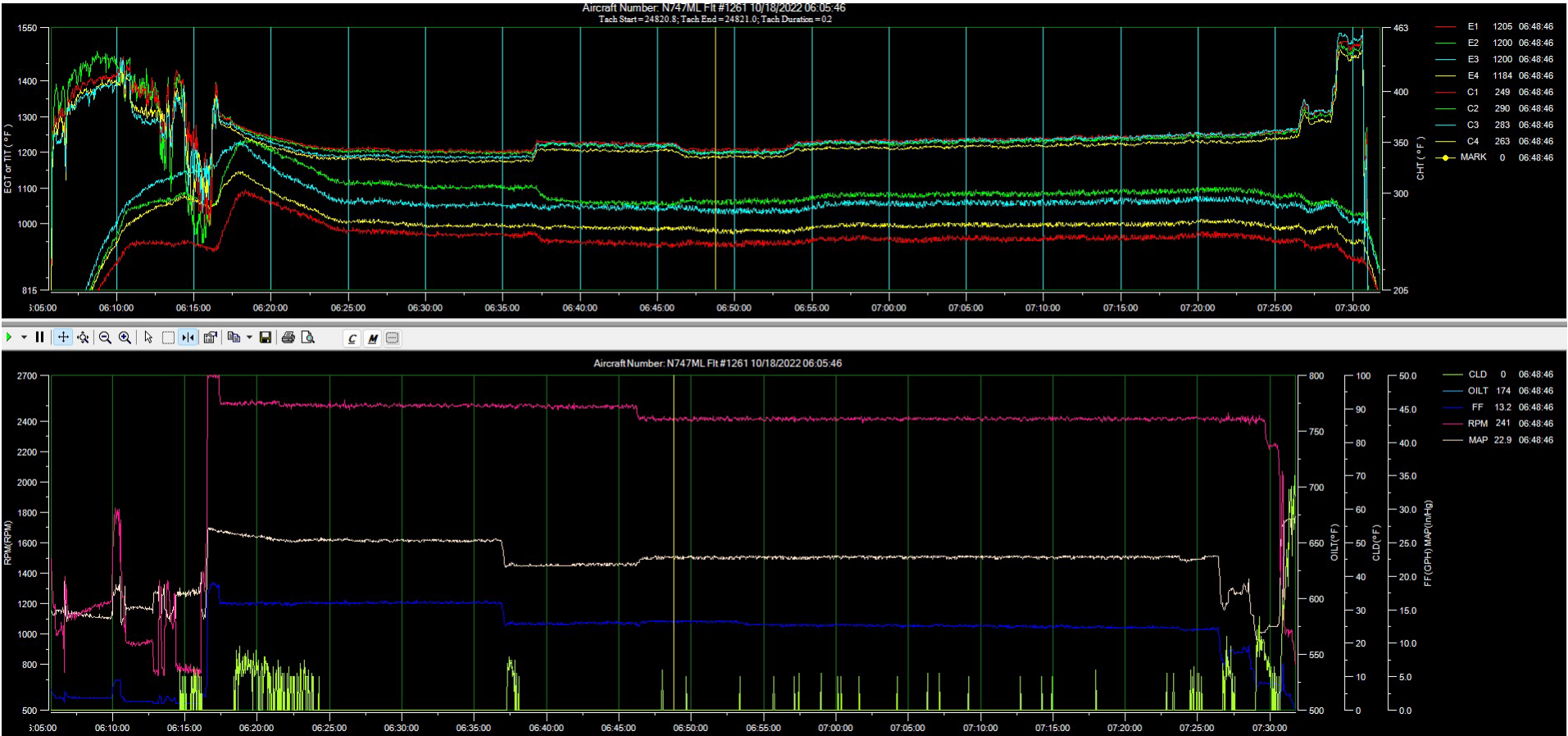


Figure 3. EDM data plot of entire flight 1261 (accident flight)

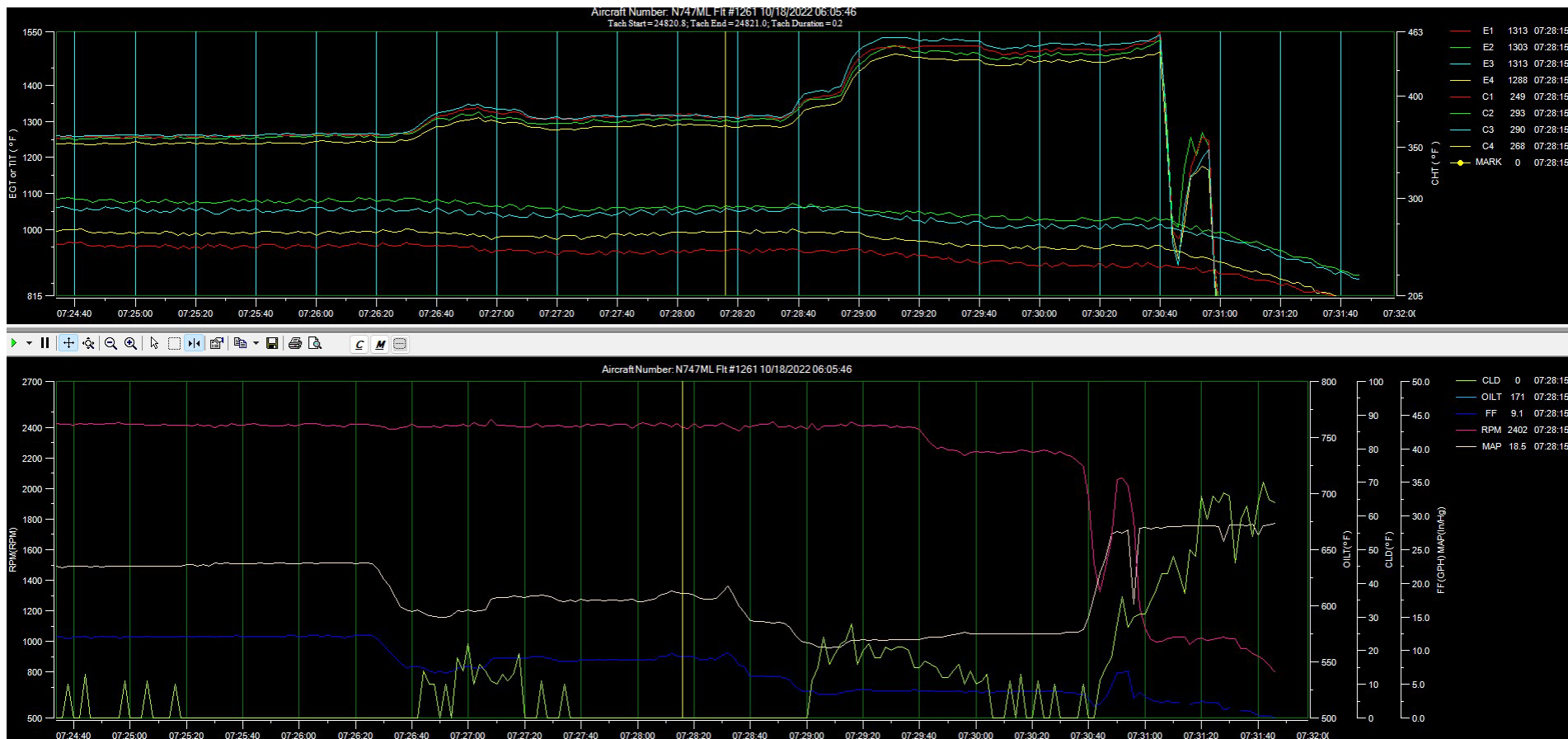


Figure 4. EDM plot of last 7 minutes of flight 1261 (accident flight)