

NATIONAL TRANSPORTATION SAFETY BOARD

Office of Aviation Safety
Washington, D.C. 20594

August 12, 2020

Engine Data Monitor

Factual Report
By Heidi Kemner

1. EVENT SUMMARY

Location: Pottstown, PA
Date: July 20, 2020
Aircraft: Cessna 182
Registration: N4092D
NTSB Number: ERA20LA258

2. DETAILS OF INVESTIGATION

On July 20, 2020, about 2129 eastern daylight time, a Cessna 182A, N4092D, was substantially damaged when it was involved in an accident near Pottstown, Pennsylvania. The pilot, pilot rated passenger, and passenger were not injured. The airplane was operated as a Title 14 Code of Federal Regulations Part 91 personal flight.

The following device was downloaded:

Device Manufacturer/Model: JPI 730/830 Engine Data Monitor
Serial Number: 43156

2.1. Data Recovery

The device was not damaged and was downloaded normally using the manufacturer's software. Figures 1 and 2 show the front and back of the device.

TSO C43b, Temperature Indicator Model EDM-700/730/800/830
 P/N: EGT-701-16 JC-DT J-OH J-A J-T J-F J-RM J-LR
 WT: 1.12 Lbs Volts: 11 to 30 VDC TC: Type K
 SN: 43756 1992 MFG: 04/20
 SOFTWARE: P/N 8244 REV: 2011 S/W DO-178b, Level-C
 DO-180c Env. Con: 8YBAIMXXXXXXC8ABATAOXX, Class 1b
 Fuel Flow does not comply with TSO-C44 — RPM does not comply with TSO-C49
 MFI does not comply with TSO-C41 — Oil Pressure does not comply with TSO-C47
 J.P. INSTRUMENTS Inc. Box 7033 Huntington Beach CA 92646

2.2. Data Description

The data extracted included 168 sessions from April 15, 2020,¹ through July 22, 2020. The accident flight was recorded on July 20, 2020, and was from 22:52:46 to 01:23:17 on July 21, 2020.

Several graphs of the engine data from the accident flight are attached at the end of this report.

2.3. TABULAR DATA

Tabular data are included as Attachment 1. This attachment is provided in electronic comma-delimited (.CSV) format. Note that the time in the tabular data is Universal Coordinated Time.

¹ All dates and times are referenced to Universal Coordinated Time.

Aircraft Number: N4092D Flt #174 7/20/2020 22:52:46

Tach Start = 74.7; Tach End = 77.2; Tach Duration = 2.5



