

NATIONAL TRANSPORTATION SAFETY BOARD • PILOT/OPERATOR AIRCRAFT ACCIDENT/INCIDENT REPORT Use this form (Form 6120.1) to report civil and public aircraft accidents and incidents

BASIC INFORMATION
Accident/Incident Location

 Nearest City/Place: Mayo State: MD

 ZIP: 21160 Country: USA

 Latitude: N38.89 Longitude: 76.51

(Enter in decimal degrees or degrees:minutes:seconds)

Accident/Incident Date/Time

 Date: 02/22/2025 Local Time: 15:46
mm/dd/yyyy HH:MM

 Time Zone: EDT

 Collision with Other Aircraft: ☐ Midair ☐ On-ground ☒ None

AIRCRAFT INFORMATION

 Registration Number: N781FM

 Manufacturer: Cessna

 Model: 172 P

 Serial Number: 17274448

 Year of Manufacture: 1980

 Amateur-Built: ☐ Yes ☒ No If Yes: ☐ Original Design ☐ Kit/Plans

Make: _____

☒ IFR-Equipped and Certified

☐ Commercial Space Flight

☐ Unmanned Aircraft

 Maximum Gross Weight: 2550 lbs.

 Weight at Time of Accident/Incident: 1830 lbs.

 Number of Seats: 4 Flight Crew Seats: 2

 Cabin Crew Seats: 0 Passenger Seats: 2

 Number of Engines: 1
Category of Aircraft
 (Select one)

- ☒ Airplane
☐ Balloon
☐ Blimp/Dirigible
☐ Glider
☐ Gyroplane
☐ Helicopter
☐ Powered Lift
☐ Rocket
☐ Ultralight
☐ Unknown

Type of Airworthiness Certificate
 (Check all that apply)

Standard
☒ Normal

☐ Aerobatic

☐ Balloon

☐ Commuter

☐ Transport

☐ Utility

Special
☐ Restricted

☐ Limited

☐ Provisional

☐ Special Flight

☐ Experimental

☐ Special Light-Sport

☐ Experimental Light-Sport

☐ Certificate of Authorization or Waiver (COA)

☐ None

☐ Unknown

Landing Gear

(Check all that apply)

☐ Retractable

☒ Tricycle

☐ Tailwheel

☐ Emergency Float

☐ Float

☐ Amphibian

☐ Other Launch/Recovery System

☐ None

☐ High Skid

☐ Skid

☐ Ski/Wheel

☐ Hull

☐ Ski

☐ Unknown

Engine Type (Select one)
☒ Reciprocating

☐ Turbo Shaft

☐ Turbo Prop

☐ Turbo Jet

☐ Turbo Fan

☐ Electric

☐ Liquid Rocket

☐ Solid Rocket

☐ Hybrid Rocket

☐ None

☐ Unknown

Fuel System Type (Reciprocating)
☒ Carburetor

☐ Fuel Injected

Engine	Engine Manufacturer	Engine Model/Series	Engine Serial Number	Date of Mfg. (mm/dd/yyyy)	Rated Power ☒ Horsepower or ☐ Lbs. of Thrust	Total Time (hours)	Time Since: Inspection (hours)	Overhaul (hours)
Eng. 1	<u>Lycoming</u>	<u>O-360/A4M</u>	<u>L-30169-36A</u>	<u>Unknown</u>	<u>180</u>	<u>unknown</u>	<u>567.0</u>	<u>1881.1</u>
Eng. 2								
Eng. 3								
Eng. 4								

Last Inspection Type

- ☒ 100-Hour
☐ AAIP
☐ Annual
☐ Continuous Airworthiness
☐ Condition Inspection
☐ Unknown

 Date of Last Inspection: _____
mm/dd/yyyy

Airframe Total Time: _____ hrs

Hours measured at (Select one)

☐ Last Inspection ☐ Time of Accident/Incident

Type of Maintenance Program (Select One)

- ☒ Annual
☐ Conditional (Amateur-built only)
☐ Manufacturer's Inspection Program
☐ Other Approved Inspection Program
☐ (AAIP) Continuous Airworthiness
☐ Other, specify: _____

Description of Fire Extinguishing System

- ☒ None
☐ Specify: _____

Additional Equipment

- ☒ ADS-B
☐ Airframe Parachute
☐ Angle of Attack Indicator
☐ Autopilot
☐ Autopilot/FMS, Model: _____
☐ Coupled Flight Director
☐ Data Recorder
☐ Device Stall Warning System
☐ Electronic Flight Bag or Handheld Device
☐ Electronic Multifunction Display
☐ Electronic Primary Flight Display
☐ Flight Management System

- ☐ Handheld GPS
☐ Heads Up Display
☐ Night Vision Goggles
☐ Onboard Weather
☐ Primary Flight Display
☐ SAS, Number of Axes: _____ Model: _____
☐ Satellite Tracking Device
☐ Stall Warning System
☐ Video Recording Device
☐ Wire Strike Detection
☐ Wire Strike Protection
☐ Other, Specify: _____

 ELT Installed: ☒ Yes ☐ No If Yes:

ELT Manufacturer: _____

Model or Part No.: _____

 TSO No.: ☐ C91 (121.5 MHz) ☐ C91a (121.5 MHz)
☐ C126 (406 MHz)

 Was ELT still mounted in aircraft? ☒ Yes ☐ No

 Was ELT still connected to antenna? ☒ Yes ☐ No

 Did ELT activate? ☐ Yes ☒ No

 If activated: Did ELT aid in locating aircraft? ☐ Yes ☐ No

 If not activated: Indicate Reason: ☐ Impact Damage

☐ Fire Damage ☐ Battery Expired/Damaged ☐ Unknown

Propeller 1 ☒ Fixed Pitch
☐ Controllable Pitch
☐ Ground Adjustable

Manufacturer: _____

Model: _____

Propeller 2 ☐ Fixed Pitch
☐ Controllable Pitch
☐ Ground Adjustable

Manufacturer: _____

Model: _____

OWNER/OPERATOR INFORMATION**Registered Aircraft Owner**

Name: FMFA INC
 City: Wilmington State: DE
 ZIP: 19801 Country: USA

Fractional Ownership Aircraft: ☐ Yes ☒ No

Operator of Aircraft

☐ The Operator is also the Registered Owner

☒ Same address as Registered Owner

Name: _____
 City: _____ State: _____
 ZIP: _____ Country: _____

Doing Business As: _____

Air Carrier/Operator Designator (4-character code): _____

Operating Certificates Held

(Check all that apply)

- ☐ None
☐ Flag Carrier Operating Certificate (FAR 121)
☐ Supplemental
☐ Air Cargo
☐ Foreign Air Carriers (FAR 129)
☐ Rotorcraft External Load (FAR 133)
☐ Commuter Air Carrier (FAR 135)
☐ On-Demand Air Taxi (FAR 135)
☐ Commercial Air Tour (FAR 136)
☐ Agricultural Aircraft (FAR 137)
☐ Pilot School (FAR 141)
☐ Certificate of Authorization or Waiver (COA)
☐ Commercial Space Transportation
 Experimental Permit
☐ Commercial Space Transportation License
☐ Other Operator of Large Aircraft

Regulation Flight Conducted Under

- ☒ FAR 91 ☐ FAR 129 ☐ FAR 415
☐ FAR 103 ☐ FAR 133 ☐ FAR 431
☐ FAR 121 ☐ FAR 135 ☐ FAR 435
☐ FAR 125 ☐ FAR 137 ☐ FAR 437
☐ FAR 450
☐ FAR 91 Special Flight
☐ Non-US, Commercial
☐ Non-US, Non-commercial
☐ Public Aircraft (Select one)
 ☐ Armed Forces
 ☐ Federal
 ☐ State
 ☐ Local
☐ Unknown

Revenue Operation for FAR 121, 125, 129, 135

(Select one for each group)

- ☐ Scheduled or Commuter ☐ Domestic
☐ Non-Scheduled or Air Taxi ☐ International
☐ Passenger
☐ Cargo
☐ Mail Contract Only

Purpose of Flight for FAR 91, 103, 133, 137 (Select one)

- ☐ Aerial Application ☐ Firefighting
☐ Aerial Observation ☐ Flight Test
☐ Air Drop ☐ Glider Tow
☐ Air Race/Show ☒ Instructional
☐ Banner Tow ☐ Other Work Use
☐ Business ☐ Personal
☐ Executive/Corporate ☐ Positioning
☐ External Load ☐ Skydiving
☐ Ferry ☐ Unknown

Revenue Sightseeing Flight

☐ Yes ☒ No

Air Medical Flight

☐ Yes ☒ No

AIRPORT INFORMATION (Fill in if accident/incident occurred on approach, landing, takeoff, departure, or within 3 miles of an airport)

Airport Name: NA - off field landing

Airport Identifier: _____

Proximity to Airport: ☐ Off Airport/Airstrip ☐ On Airport/Airstrip ☐ N/A

Distance From Airport Center: _____ sm.

Direction From Airport: _____ degrees true

Airport Elevation: _____ ft. MSL

Runway Information

Runway ID: _____ Length: _____ ft. Width: _____ ft.

Runway/Landing Surface (Check all that apply)

- ☐ Asphalt ☐ Grass/Turf ☐ Ice ☐ Snow
☐ Concrete ☐ Gravel ☐ Macadam ☐ Water
☐ Dirt ☐ Helideck ☐ Metal/Wood ☐ Unknown
☐ Elevated Heliport ☐ Helistop ☐ Off-site landing area

Condition of Runway/Landing Surface (Check all that apply)

- ☐ Dry ☐ Snow-Compacted ☐ Water-Calm
☐ Holes ☐ Snow-Crusted ☐ Water-Choppy
☐ Ice Covered ☐ Snow-Dry ☐ Water-Glassy
☐ Rough ☐ Snow-Wet ☐ Wet
☐ Rubber Deposits ☐ Soft
☐ Slush-Covered ☐ Vegetation ☐ Unknown

Approach/Departure Segment (Select one)

- ☐ Taxi ☐ VFR Departure ☐ On Instrument Approach ☐ Downwind ☐ Low Approach
☐ Takeoff ☐ IFR Departure Procedure/Clearance ☐ Landing ☐ Base ☐ Go Around
☐ Initial Climb ☐ Aborted Landing (after touchdown)
☐ Crosswind ☐ Unknown

IFR Approach (Check all that apply)

- ☒ None
☐ ADF/NDB ☐ PAR ☐ MLS ☐ Practice
☐ SDF ☐ Sidestep ☐ LDA ☐ GPS
☐ VOR/TVOR ☐ ILS ☐ ASR ☐ Unknown
☐ VOR/DME ☐ Localizer Only ☐ Visual
☐ TACAN ☐ LOC-back course ☒ Contact
☐ RNAV ☐ Circling

VFR Approach (Check all that apply)

- ☒ None
☐ Traffic Pattern ☐ Stop and Go
☐ Straight-In ☐ Touch and Go
☐ Valley/Terrain Following ☐ Simulated Forced Landing
☐ Go Around ☐ Forced Landing
☐ Full Stop ☐ Precautionary Landing
☐ Unknown

"FLIGHT CREWMEMBER 1" INFORMATION**"Flight Crewmember 1" Responsibilities at the Time of Accident/Incident**

☐ Captain ☐ First Officer ☐ Pilot ☐ Co-Pilot ☒ Student Pilot ☐ Flight Instructor ☐ Check Pilot ☐ Flight Engineer ☐ Other Flight Crew

"Flight Crewmember 1" was pilot flying ☒ Yes ☐ No

"Flight Crewmember 1" Identification

First Name: GianLuca

City of Residence: Riva

Middle Initial: V

State: MD ZIP: 21140

Last Name: Catalano

Country: USA

Age at time of Accident/Incident: 18

Date of Birth: _____ (mm/dd/yyyy)

Certificate Number: _____

Degree of Injury

☐ None ☐ Serious
☐ Unknown ☐ Fatal
☒ Minor

Seat Occupied

☒ Left ☐ Front ☐ Unknown
☐ Right ☐ Rear
☐ Center ☐ Single

Restraint Type**Available**

☐ None
☐ Lap only
☒ 3-point
☐ 4-point
☐ 5-point
☐ Unknown

Used

☐ None
☐ Lap only
☒ 3-point
☐ 4-point
☐ 5-point
☐ Unknown

Supplemental Restraint, specify: Seat rail

Inflatable Restraints

☒ Not Installed
☐ Installed
☐ Not Deployed
☐ Deployed
☐ Unknown

Pilot Certificate(s) (Check all that apply)

☐ None ☐ Flight Instructor ☐ Commercial
☐ US Military ☐ Private ☐ Recreational
☐ Airline Transport ☐ Foreign ☐ Sport
☒ Student ☐ Flight Engineer

Principal Occupation

☒ Pilot
☐ Other
☐ Unknown

Medical Certificate

☐ None ☐ Class 3 ☐ Unknown
☒ Class 1 ☐ BasicMed
☐ Class 2 ☐ Driver's License (Sport Pilot only)

Medical Certificate Validity

☒ Without limitations/waivers ☐ Unknown
☐ With limitations/waivers ☐ N/A
☐ Special Issuance

Date of Last Medical

02/29/2024
mm/dd/yyyy

Medical Certificate Limitations

NONE

Medical Certificate Special Limitations

NONE

Personal Flight Equipment (Check all that apply)

☐ Fire resistant flight suit ☐ Helmet ☐ Laser protective visor/glasses ☐ Personal locator beacon(s) (PLB) ☐ Fire resistant gloves
☐ Helmet visor ☐ Night vision goggles ☐ Personal flotation ☐ Other: _____

Date of Last Flight Review or Equivalent, Including FAR 121/135 Checks:

mm/dd/yyyy

Flight Review Aircraft

Make: NA Student pilot

Model: _____

Airplane Rating(s)
(Check all that apply)

☐ Single-Engine Land
☐ Single-Engine Sea
☐ Multiengine Land
☐ Multiengine Sea

Other Aircraft Rating(s)
(Check all that apply)

☐ None
☐ Airship
☐ Balloon
☐ Glider
☐ Gyroplane
☐ Helicopter
☐ Powered Lift

Instrument Rating(s)
(Check all that apply)

☐ None
☐ Airplane
☐ Helicopter
☐ Powered Lift

Instructor Rating(s)
(Check all that apply)

☐ None ☐ Instrument Airplane
☐ Airplane Single-Engine ☐ Instrument Helicopter
☐ Airplane Multiengine ☐ Helicopter
☐ Gyroplane ☐ Glider
☐ Powered lift ☐ Sport

Type Ratings and Applicable Logbook Endorsements**Student Endorsements** (Include dates)

Initial Solo - 11/11/24, Class B Bwi 11/11/24, Solo Flight additional 90-Day Endorsement 2/10/25
additional airport wintin 25nm Solo 11/17/24
Airspace endorsement Class B,C,D 11/12/24
Initial cross county Solo 12/04/24/Cross Country 2/22/25

Flight Time (Enter hours for each box)	All Aircraft	This Make & Model	Airplane Single Engine	Airplane Multiengine	Night	Instrument		Rotorcraft	Glider	Lighter Than Air	Multi-engine Rotorcraft	Tail-wheel
						Actual	Simulated					
Total Time	71.8	46.6	71.8		3.2		3.6					
Pilot in Command (PIC)												
Time as Instructor												
This Make/Model												
Last 90 Days	38.6	38.6	38.6									
Last 30 Days	13.0	13.0	13.0		3.2							
Last 24 Hours	2.6	2.6	2.6									

"FLIGHT CREWMEMBER 2" INFORMATION**"Flight Crewmember 2" Responsibilities at the Time of Accident/Incident**
☐ Captain ☐ First Officer ☐ Pilot ☐ Co-Pilot ☐ Student Pilot ☐ Flight Instructor ☐ Check Pilot ☐ Flight Engineer ☐ Other Flight Crew

"Flight Crewmember 2" was pilot flying ☐ Yes ☐ No
"Flight Crewmember 2" Identification

First Name: _____

City of Residence: _____

Middle Initial: _____

State: _____ ZIP: _____

Last Name: _____

Country: _____

Age at time of Accident/Incident: _____

Date of Birth: _____ (mm/dd/yyyy)

Certificate Number: _____

Degree of Injury
☐ None ☐ Serious
☐ Unknown ☐ Fatal
☐ Minor
Seat Occupied
☐ Left ☐ Front ☐ Unknown
☐ Right ☐ Rear
☐ Center ☐ Single
Restraint Type**Available**
☐ None
☐ Lap only
☐ 3-point
☐ 4-point
☐ 5-point
☐ Unknown
Used
☐ None
☐ Lap only
☐ 3-point
☐ 4-point
☐ 5-point
☐ Unknown
Inflatable Restraints
☐ Not Installed
☐ Installed
☐ Not Deployed
☐ Deployed
☐ Unknown
Pilot Certificate(s) (Check all that apply)
☐ None ☐ Flight Instructor ☐ Commercial
☐ US Military ☐ Private ☐ Recreational
☐ Airline Transport ☐ Foreign ☐ Sport
☐ Student ☐ Flight Engineer

Supplemental Restraint, specify: _____

Principal Occupation
☐ Pilot
☐ Other
☐ Unknown
Medical Certificate
☐ None ☐ Class 3 ☐ Unknown
☐ Class 1 ☐ BasicMed
☐ Class 2 ☐ Driver's License (Sport Pilot Only)
Medical Certificate Validity
☐ Without limitations/waivers ☐ Unknown
☐ With limitations/waivers ☐ N/A
☐ Special Issuance
Date of Last Medical_____
mm/dd/yyyy**Medical Certificate Limitations****Medical Certificate Special Limitations****Personal Flight Equipment** (Check all that apply)
☐ Fire resistant flight suit ☐ Helmet ☐ Laser protective visor/glasses ☐ Personal Locator Beacon(s) (PLB) ☐ Fire resistant gloves
☐ Helmet visor ☐ Night vision goggles ☐ Personal flotation ☐ Other: _____
Date of Last Flight Review or Equivalent, Including FAR 121/135 Checks:_____
mm/dd/yyyy**Flight Review Aircraft**

Make: _____

Model: _____

Airplane Rating(s)
(Check all that apply)
☐ Single-Engine Land
☐ Single-Engine Sea
☐ Multiengine Land
☐ Multiengine Sea
Other Aircraft Rating(s)
(Check all that apply)
☐ None
☐ Airship
☐ Balloon
☐ Glider
☐ Gyroplane
☐ Helicopter
☐ Powered Lift
Instrument Rating(s)
(Check all that apply)
☐ None
☐ Airplane
☐ Helicopter
☐ Powered Lift
Instructor Rating(s)
(Check all that apply)
☐ None ☐ Instrument Airplane
☐ Airplane Single-Engine ☐ Instrument Helicopter
☐ Airplane Multiengine ☐ Helicopter
☐ Gyroplane ☐ Glider
☐ Powered lift ☐ Sport
Type Ratings and Applicable Logbook Endorsements**Student Endorsements** (Include dates)

Flight Time (Enter hours for each box)	All Aircraft	This Make & Model	Airplane Single Engine	Airplane Multiengine	Night	Instrument		Rotorcraft	Glider	Lighter Than Air	Multi-engine Rotorcraft	Tail-wheel
						Actual	Simulated					
Total Time												
Pilot in Command (PIC)												
Time as Instructor												
This Make/Model												
Last 90 Days												
Last 30 Days												
Last 24 Hours												

ADDITIONAL FLIGHT CREWMEMBERS (Exclusive of cabin crew, complete the following information.)																				
Additional Crewmember Information First Name: _____ City of Residence: _____ Middle Initial: _____ State: _____ Zip: _____ Last Name: _____ Country: _____			Seat Occupied ☐ Left ☐ Rear ☐ Center ☐ Single ☐ Right ☐ Unknown ☐ Front		Injury ☐ None ☐ Minor ☐ Serious ☐ Fatal ☐ Unknown															
Personal Flight Equipment (Check all that apply) ☐ Fire resistant flight suit ☐ Helmet ☐ Laser protective visor/glasses ☐ Personal locator beacon(s) (PLB) ☐ Fire resistant gloves ☐ Helmet visor ☐ Night vision goggles ☐ Personal flotation ☐ Other: _____																				
Pilot Certificate(s) (Check all that apply) ☐ None ☐ Flight Instructor ☐ Commercial ☐ US Military ☐ Private ☐ Recreational ☐ Airline Transport ☐ Foreign ☐ Student ☐ Sport ☐ Flight Engineer			Restraint Type <table style="width: 100%;"> <tr> <th style="text-align: left;">Available</th> <th style="text-align: left;">Used</th> </tr> <tr> <td>☐ None</td> <td>☐ None</td> </tr> <tr> <td>☐ Lap Only</td> <td>☐ Lap Only</td> </tr> <tr> <td>☐ 3-point</td> <td>☐ 3-point</td> </tr> <tr> <td>☐ 4-point</td> <td>☐ 4-point</td> </tr> <tr> <td>☐ 5-point</td> <td>☐ 5-point</td> </tr> <tr> <td>☐ Unknown</td> <td>☐ Unknown</td> </tr> </table> Supplemental Restraint, specify: _____		Available	Used	☐ None	☐ None	☐ Lap Only	☐ Lap Only	☐ 3-point	☐ 3-point	☐ 4-point	☐ 4-point	☐ 5-point	☐ 5-point	☐ Unknown	☐ Unknown	Inflatable Restraints ☐ Not Installed ☐ Installed ☐ Not Deployed ☐ Deployed ☐ Unknown	
Available	Used																			
☐ None	☐ None																			
☐ Lap Only	☐ Lap Only																			
☐ 3-point	☐ 3-point																			
☐ 4-point	☐ 4-point																			
☐ 5-point	☐ 5-point																			
☐ Unknown	☐ Unknown																			
Type Rating/Endorsement for Accident/Incident Aircraft? ☐ Yes ☐ No			Total Flight Time at the Time of this Accident/Incident: _____ hrs.																	
Additional Crewmember Information First Name: _____ City of Residence: _____ Middle Initial: _____ State: _____ Zip: _____ Last Name: _____ Country: _____			Seat Occupied ☐ Left ☐ Rear ☐ Center ☐ Single ☐ Right ☐ Unknown ☐ Front		Injury ☐ None ☐ Minor ☐ Serious ☐ Fatal ☐ Unknown															
Personal Flight Equipment (Check all that apply) ☐ Fire resistant flight suit ☐ Helmet ☐ Laser protective visor/glasses ☐ Personal Locator Beacon(s) (PLB) ☐ Fire resistant gloves ☐ Helmet visor ☐ Night vision goggles ☐ Personal flotation ☐ Other: _____																				
Pilot Certificate(s) (Check all that apply) ☐ None ☐ Flight Instructor ☐ Commercial ☐ US Military ☐ Private ☐ Recreational ☐ Airline Transport ☐ Foreign ☐ Student ☐ Sport ☐ Flight Engineer			Restraint Type <table style="width: 100%;"> <tr> <th style="text-align: left;">Available</th> <th style="text-align: left;">Used</th> </tr> <tr> <td>☐ None</td> <td>☐ None</td> </tr> <tr> <td>☐ Lap Only</td> <td>☐ Lap Only</td> </tr> <tr> <td>☐ 3-point</td> <td>☐ 3-point</td> </tr> <tr> <td>☐ 4-point</td> <td>☐ 4-point</td> </tr> <tr> <td>☐ 5-point</td> <td>☐ 5-point</td> </tr> <tr> <td>☐ Unknown</td> <td>☐ Unknown</td> </tr> </table> Supplemental Restraint, specify: _____		Available	Used	☐ None	☐ None	☐ Lap Only	☐ Lap Only	☐ 3-point	☐ 3-point	☐ 4-point	☐ 4-point	☐ 5-point	☐ 5-point	☐ Unknown	☐ Unknown	Inflatable Restraints ☐ Not Installed ☐ Installed ☐ Not Deployed ☐ Deployed ☐ Unknown	
Available	Used																			
☐ None	☐ None																			
☐ Lap Only	☐ Lap Only																			
☐ 3-point	☐ 3-point																			
☐ 4-point	☐ 4-point																			
☐ 5-point	☐ 5-point																			
☐ Unknown	☐ Unknown																			
Type Rating/Endorsement for Accident/Incident Aircraft? ☐ Yes ☐ No			Total Flight Time at the Time of this Accident/Incident: _____ hrs.																	
PASSENGER(S) / OTHER PERSONNEL (Include cabin crew; continue on separate sheet, if necessary.)																				
Number of Passengers <u>NONE</u>																				
Passenger Information		Seat	Injury	Restraint Type	Inflatable Restraints	Age														
First Name: _____ City: _____ Middle Initial: _____ State: _____ Zip: _____ Last name: _____ Country: _____ ☐ Crew ☐ Passenger ☐ Other		☐ Left ☐ Center ☐ Right ☐ Unknown Row: _____	☐ None ☐ Minor ☐ Serious ☐ Fatal ☐ Unknown	<table style="width: 100%;"> <tr> <th style="text-align: left;">Available</th> <th style="text-align: left;">Used</th> </tr> <tr> <td>☐ None</td> <td>☐ None</td> </tr> <tr> <td>☐ Lap Only</td> <td>☐ Lap Only</td> </tr> <tr> <td>☐ 3-point</td> <td>☐ 3-point</td> </tr> <tr> <td>☐ 4-point</td> <td>☐ 4-point</td> </tr> <tr> <td>☐ 5-point</td> <td>☐ 5-point</td> </tr> <tr> <td>☐ Unknown</td> <td>☐ Unknown</td> </tr> </table> Supplemental Restraint, specify: _____	Available	Used	☐ None	☐ None	☐ Lap Only	☐ Lap Only	☐ 3-point	☐ 3-point	☐ 4-point	☐ 4-point	☐ 5-point	☐ 5-point	☐ Unknown	☐ Unknown	☐ Not Installed ☐ Installed ☐ Not Deployed ☐ Deployed ☐ Unknown	☐ Under 5 years If under 5 years, ☐ Child Restraint ☐ Lap-Held ☐ Unknown
Available	Used																			
☐ None	☐ None																			
☐ Lap Only	☐ Lap Only																			
☐ 3-point	☐ 3-point																			
☐ 4-point	☐ 4-point																			
☐ 5-point	☐ 5-point																			
☐ Unknown	☐ Unknown																			
Personal Flight Equipment (Check all that apply) ☐ Fire resistant flight suit ☐ Helmet ☐ Laser protective visor/glasses ☐ PLB ☐ Fire resistant gloves ☐ Night vision goggles ☐ Helmet visor ☐ Personal flotation ☐ Other: _____																				

First Name: _____ City: _____ Middle Initial: _____ State: _____ Zip: _____ Last name: _____ Country: _____ ☐ Crew ☐ Passenger ☐ Other Personal Flight Equipment (Check all that apply) ☐ Fire resistant flight suit ☐ Helmet ☐ Laser protective visor/glasses ☐ PLB ☐ Fire resistant gloves ☐ Night vision goggles ☐ Helmet visor ☐ Personal flotation ☐ Other: _____	☐ Left ☐ Center ☐ Right ☐ Unknown Row: _____	☐ None ☐ Minor ☐ Serious ☐ Fatal ☐ Unknown	Available ☐ None ☐ Lap Only ☐ 3-point ☐ 4-point ☐ 5-point ☐ Unknown Supplemental Restraint, specify: _____	Used ☐ None ☐ Lap Only ☐ 3-point ☐ 4-point ☐ 5-point ☐ Unknown	☐ Not Installed ☐ Installed ☐ Not Deployed ☐ Deployed ☐ Unknown	☐ Under 5 years If under 5 years, ☐ Child Restraint ☐ Lap-Held ☐ Unknown
First Name: _____ City: _____ Middle Initial: _____ State: _____ Zip: _____ Last name: _____ Country: _____ ☐ Crew ☐ Passenger ☐ Other Personal Flight Equipment (Check all that apply) ☐ Fire resistant flight suit ☐ Helmet ☐ Laser protective visor/glasses ☐ PLB ☐ Fire resistant gloves ☐ Night vision goggles ☐ Helmet visor ☐ Personal flotation ☐ Other: _____	☐ Left ☐ Center ☐ Right ☐ Unknown Row: _____	☐ None ☐ Minor ☐ Serious ☐ Fatal ☐ Unknown	Available ☐ None ☐ Lap Only ☐ 3-point ☐ 4-point ☐ 5-point ☐ Unknown Supplemental Restraint, specify: _____	Used ☐ None ☐ Lap Only ☐ 3-point ☐ 4-point ☐ 5-point ☐ Unknown	☐ Not Installed ☐ Installed ☐ Not Deployed ☐ Deployed ☐ Unknown	☐ Under 5 years If under 5 years, ☐ Child Restraint ☐ Lap-Held ☐ Unknown
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FLIGHT ITINERARY INFORMATION

Last Departure Point	Time of Departure	Flight Information	Destination	Type Flight Plan Filed
Airport ID: <u>33N</u> City: <u>Dover</u> State: <u>DE</u> Country: <u>USA</u>	Time: <u>15:09</u> HH:MM Time Zone: <u>EDT</u>	Flight Number: Operating as Flight <u>1</u>	Airport ID: <u>KFME</u> City: <u>Odenton</u> State: <u>MD</u> Country: <u>USA</u>	☐ None ☐ Company VFR ☐ Military VFR ☒ VFR ☐ VFR/IFR ☐ IFR ☐ Unknown Activated? ☐ Yes ☐ No ☒ Unknown

Type of ATC Clearance/Service <i>(Check all that apply)</i>				
☐ Certificate of Authorization	☐ Special VFR	☐ Special IFR	☒ VFR Flight Following	☐ Cruise
☒ VFR	☐ IFR	☐ VFR On Top	☒ Traffic Advisory	☐ Unknown / NA
			☐ None	
Airspace where the accident/incident occurred <i>(Check all that apply)</i>				
☐ Class A	☐ Class G	☐ Military Operations Area (MOA)	☒ Special	
☒ Class B	☐ Demo Area	☐ Airport Advisory Area	☐ Air Traffic Control Area	
☐ Class C	☐ Warning Area	☐ Jet Training Area	☐ Unknown	
☐ Class D	☐ Prohibited Area	☐ TRSA		
☐ Class E	☐ Restricted Area	☐ FAR 93		
			Altitude of In-Flight Occurrence: <u>1500</u> ft. MSL	
WEATHER INFORMATION AT THE ACCIDENT/INCIDENT SITE				
Source of Pilot Weather Information <i>(Check all that apply)</i>		Weather Observation Facility		
☒ National Weather Service ☒ Flight Service Station ☐ TV/Radio ☐ Automated Report ☒ Electronic Flight Bag-Application: ☒ On-Board Weather		☐ Company ☐ Military ☐ Internet ☐ None ☐ Unknown		
		Facility ID: <u>KFME</u> Observation Time: <u>1954z/1554 EDT</u> Time Zone: <u>EDT</u> Distance from Accident Site: _____ nm Direction from Accident Site: _____ degrees true		
Basic Conditions		Lowest Cloud Condition		
☒ VMC ☐ IMC ☐ Unknown		Height: <u>25,000</u> ft. AGL		
		Light Condition		
		☐ Dawn ☐ Dusk ☐ Dark Night ☐ Unknown ☒ Day ☐ Night ☐ Bright Night		
Sky/Lowest Cloud Condition		Ceiling		Temperature: <u>3</u> (°C) or <u>37</u> (°F) Dewpoint: <u>8</u> (°C) or <u>-17</u> (°F)
☒ Clear ☐ Thin Broken ☐ Few ☐ Thin Overcast ☐ Partial ☐ Unknown ☐ Obscuration ☐ Scattered		☒ None (Clear) ☐ Broken ☐ Overcast ☐ Obscured ☐ Indefinite ☐ Unknown		
		Ceiling Height		
		_____ ft. AGL		
Altimeter Setting:		Wind Direction		Visibility
_____ (Hg), or _____ (mb)		☐ Variable or _____ Direction: _____ degrees true		
		Wind Speed		
		☐ Calm ☐ Light and Variable or Speed: _____ kts		
		Wind Gusts		
		☐ Not Gusting or Speed: _____ kts		
Type of Precipitation <i>(Check all that apply)</i>		Restriction to Visibility <i>(Check all that apply)</i>		
☒ None ☐ Drizzle ☐ Freezing Rain ☐ Rain ☐ Ice Pellets ☐ Snow Shower ☐ Snow ☐ Snow Pellets ☐ Ice Pellets Shower ☐ Hail ☐ Snow Grains ☐ Freezing Drizzle ☐ Rain Showers ☐ Ice Crystals		☒ None ☐ Fog ☐ Blowing Dust ☐ Ground Fog ☐ Blowing Sand ☐ Haze ☐ Blowing Snow ☐ Ice Fog ☐ Blowing Spray ☐ Smoke ☐ Dust ☐ Unknown		
Icing Forecast		Intensity of Precipitation		Turbulence <i>(Check all that apply)</i>
Amount Type ☒ None ☐ N/A ☐ Trace ☐ Rime ☐ Light ☐ Clear ☐ Moderate ☐ Mixed ☐ Severe ☐ Unknown ☐ Unknown		☐ Light ☐ Moderate ☐ Heavy ☒ N/A ☐ Unknown		
		Icing Actual		
		Amount Type ☒ None ☐ N/A ☐ Trace ☐ Rime ☐ Light ☐ Clear ☐ Moderate ☐ Mixed ☐ Severe ☐ Unknown ☐ Unknown		
NOTAMS (D and FDC), AIRMETS, SIGMETs, PIREPs in effect at the time of the accident/incident:				
No Airmets, SIGMET or PIREPS were given at official Weather brief from, 1-800-WX-BRIEF				
KDOV 221955Z AUTO 21008KT 10SM CLR 05/M11 A3027 RMK A02 SLP254 T00531109 KBWI 221954Z 24007KT 10SM BKN200 BKN250 06/M12 A3027 RMK A02 SLP252 T00561117 \$ KFME 221949Z AUTO 17005KT 10SM CLR 05/M10 A3031 RMK A01 KNAK 221954Z AUTO 18010KT 10SM CLR 03/M08 A3030 RMK A02 SLP263 T00281078 \$				

DAMAGE TO AIRCRAFT AND OTHER PROPERTY**Aircraft Damage**

- ☐ None ☒ Substantial
☐ Minor ☐ Destroyed
 ☐ Unknown

Aircraft Fire

- ☒ None ☐ Both Ground and In-Flight
☐ In-Flight ☐ Fire at Unknown Time
☐ On-Ground ☐ Unknown

Aircraft Explosion

- ☒ None ☐ Both Ground and In-Flight
☐ In-Flight ☐ Fire at Unknown Time
☐ On-Ground ☐ Unknown

Description of Damage to Aircraft and Other Property *(Use additional sheet, if necessary.)*

Damage to aircraft was substantial to wings and nose from hitting line of tree on side of road, no other property was damage other than small amount of branches from public road.

NARRATIVE HISTORY OF FLIGHT *(Please type or print in ink.)*

Describe what occurred in chronological order, including circumstances leading to and nature of accident/incident. Describe terrain and include wreckage distribution sketch if pertinent. Attach extra sheets if needed. State departure time and location, services obtained, and intended destination. Provide as much detail as possible.

** See attached Narrative too large to write here.

OPERATOR/OWNER SAFETY RECOMMENDATION *(How could this accident/incident have been prevented?)*

NONE or Unknown reason for sudden engine failure at this time.

MECHANICAL MALFUNCTION/FAILURE (If more space is needed, continue on a separate sheet.)Was there Mechanical Malfunction/Failure? ☒ Yes ☐ No

(If yes, list the name of the part, manufacturer, part no., serial no., and describe the failure.)

Unexplained engine lost at high power setting in cruise at 35 minutes into flight after takeoff.
 Engine was in green cruise power range for over 35 minutes, with very little power changes.
 Engine died suddley from high power without any warning, roughness or fluctuation of RPM.

Total Time/ Cycles On Part

unknown Hoursunknown Cycles

Time Since This Part Inspected/Overhauled

unknown Hours**FUEL & SERVICES INFORMATION**

Fuel on Board at Last Takeoff

(Convert from pounds, as necessary)

40 Gallons

Fuel Type

☒ 100 Low Lead☐ Automotive☐ Jet A☐ Jet A-1☐ Unleaded AV☐ Other, specify _____

Other Services, if any, prior to departure:

The aircraft was fueled twice before flight, because the privous flight did not top off aircraft complete, one quate of oil was added.

EVACUATION OF AIRCRAFTWas an emergency evacuation of the aircraft performed? ☒ Yes ☐ No

Method of Exit – Describe how the occupants exited and how many occupants evacuated each location:

Left Door watch unlatch just prior to touch down, however the Left door was blocked and I climb out of the right door a soon as i came to a stop.

OTHER AIRCRAFT – COLLISION (If air or ground collision occurred, complete this section for *other* aircraft.)

Aircraft Registration Number

Manufacturer: _____

Damage to Other Aircraft:

☐ Destroyed☐ Minor☐ Substantial☐ None

Model: _____

Registered Owner of Other Aircraft

Pilot of Other Aircraft

Name: _____

Name: _____

City: _____

City: _____

State: _____ ZIP: _____

State: _____ ZIP: _____

Country: _____

Country: _____

ADDITIONAL INFORMATION (Additional space for answers to any question.)

Digital ADS-B and AHRS data is available for the flight, not sure the method to include files.

I HEREBY CERTIFY THAT THE ABOVE INFORMATION IS COMPLETE AND ACCURATE TO THE BEST OF MY KNOWLEDGE.

I understand that the information provided may be subject to public release.

Date of this report:

03/03/2025

mm/dd/yyyy

Name of Pilot/Operator: Gianluca Catalano

Signature: _____

-or- ☒ Check here to electronically sign this document

If a person other than Pilot/Operator is filing this report

Name: _____

Title: _____

Signature: _____

-or- ☐ Check here to electronically sign this document

FOR NTSB USE ONLY

NTSB Accident/Incident No.	Reviewed by NTSB AS Division	Name of Investigator	Date Report Received
ERA25LA127	ERA	Rayner	03/03/2025

Gianluca Catalano Report 2/25/25

Incident narrative 2/22/25 N781FM

I started my day with a cross country planning early in the morning spending over 4 hours of planning with my CFI review my planning. This included planning three legs with a flight log using charts, plotters and E6-B, this was all backup using EFB foreflight.

Five flight plans were filed, two SFRA in and out the gates, and three for VFR between airports.

The first leg of the long solo cross country was uneventful, landing in SBY. Shutdown, check the fuel with a dip stick and oil level, recheck the weather and call my CFI. I did a complete engine runup before departing for 33N. uneventful flight, and aircraft performed as planned. Flight time was estimate 45 minute.

Second Leg, was uneventful to from SBY to 33N except had issue with headset and used the speaker and hand-mic. Flight time was estimate at 41 minutes.

Spent some extra time on the ground troubleshooting my headset, but check the fuel via a dipstick, oil and weather, and called my CFI. I had 13 gallons per side, for a total of 26 gallons. This was in line with foreflight and preflight planning totals estimates. We also had to top off the fuel at fuel pumps at KFME with my CFI before the solo flight started with 40 Gal total.

My CFI and I discussed adding fuel which we originally planned for, but with 26-gal total and short 40 minute last leg we decide to takeoff with 26gals of fuel.

The last leg from Delaware Air Park 33N to KFME was started normally, flying at normal cruise power setting in green for cruise altitude of 2,500ft due to the high headwind at 4500 ft

A very shallow descent was started from 2,500ft to 1,500ft that took over ten minute with a small nose trim down which increasing TAS speed and vertical speed descent of around 100ft per minute descent without reducing power, RPM stayed in the green range of around 2300RPM.

I crossed the Bay at one of the narrowest points and 2,200 feet for gliding distance and check my engines instrument before all were normal, and descended to 1500 to be below the class B airspace avoidance with keep the power in the green at 2300 RPM. This is also seen in the ADS-B and AHRS data.

I noted that I had add some time I need to use before landing, so I decide to go to head south to the Deale VFR practice area.

My engine lost all power at 35 minutes into the flight at around 15:45EDT halfway over the south river at 1,500 ft heading southbound.

When I last looked, right before the engine failed my RPMs were in the green at 2300-2400, mixture was full rich, fuel selector was set for both and oil pressure was in the green just prior to crossing the Bay.

The engine lost power was immediate with no warning or roughness almost felt like pulled to idle inflight for practice except it was, no warning nor fluctuation of RPM. It just suddenly quickly died spun down and dropped to around 1000-800RPM windmilling propeller.

Immediately as the power dropped, I pulled back on the yoke to get to glide speed and, at the same time, pushed the throttle all the way in—there was no response. I turn southwesterly toward LEE airport and the shore and then I made my first radio call, saying “Potomac,” trying to figure out what was happening. I then took the throttle to full idle and back to full power—there was no response. After this, I ensured the mixture was full rich, fuel was on both, And I pulled the carb heat with no effect and pushed it back in, still no response, I looked at the RPM and looked at the primer was locked This was all I had time for.

I was making my second, third and four call to Potomac trying to tell them my position for landing off field, they still did not understand me until I used the words “Mayday” to tell them my position. ATC said the airfield was 3 miles away and I was less than 1,000 feet. This is when I started looking around for spots to land and continued making radio calls to Potomac. I was dropping fast, even though I had glide speed. I looked at Lee, and once I knew I could not make it from where I was, I focused on Turkey Point since I was somewhat familiar with the area. I was planning to put it on the road and not in the water due to the cold.

I knew I had to choose between the road on my left or right as I was over Turkey Point Marina heading south. I went with the left side because the road was straighter and I knew it was not as curved and bent as 214 west bound and had less power lines than the road on my right. I never pulled out the checklist because I had no time. I was able to tighten my seat belt and shoulder harness, and unlock my door before impact.

I made a turn to the left flew over a few houses I was above the road by 10ft when my right wing first started hitting trees on the right part of the road before I touch down but quickly went off to the right into the tree line and into a ravine. I don't remember hitting the trees as I closed my eyes before I hit the tree's but remember the last speed I saw was 65kt.

Aircraft touched down on both main wheels, however after hitting a few branch's on the way down with the right wing tip, the aircraft was turning towards the right, after landing I rolled about 80-100 ft before hitting line of trees

on the right side of the road that resulting in the aircraft turning almost a full 70 degrees into and causing the nose wheel to collapse as the aircraft went in to a small riven parallel to the road and before the tree ling along the road.

When the aircraft came to a rest, The left door was open but my seat was stuck, I unbuckled myself and exited through the right door as fast I could. Fuel was pouring out of both wings.

I seemed to be mostly unharmed. I called Potomac ATC on the phone to tell where I was and that I was safe on the road. I also called my CFI and father to tell him I was ok. I was put in ambulance, and evaluated and out of precaution taken to shock trauma in D.C. for evaluation. Was quickly released.