



NATIONAL TRANSPORTATION SAFETY BOARD

Office of Aviation Safety
Washington, D.C. 20594

April 23, 2021

AIRWORTHINESS

Group Chairman's Factual Report

ERA20LA237

**Appendix A – Maintenance Records
(16 pages)**

AIRCRAFT LOG

PIPER AIRCRAFT, INC.

General Offices at
Vero Beach, Florida
U.S.A.

N89MA

Aircraft
Registration number

Part No. 230715

AIRCRAFT DESCRIPTION

Registration No. N89MA

Model: PA-46-600TP Popular Name: M600

Serial No.: 4698109 Type Certificate No.: A2550

Colors: 765385 499583 & 494247
MATTERHORN WHITE/JET BLACK & SILVER

Engine Manufacturer: PRATT & WHITNEY Serial Numbers: Single PCE-RM0866

Original Engine Model: PT6A-42A Left 886

Propeller Manufacturer: HARTZELL Hub or Serial Number: Single SF199

Original Propeller Model: 5D3-N338A1 Left

Right

Blade Numbers

Left
C2227
C2458
C2459
C2460
C2504

Right

2020 MODEL

COMPLIANCE WITH FAA AIRWORTHINESS DIRECTIVES

[illegible]

AIRCRAFT LOG

Date	Aircraft Time		Recorder Reading	Maintenance	
	This Date	Total			
DEC 07 2019	Brought Forward →	7.9	The Altimeter and Static System Test required by FAR 91.411 have been performed. The altimeter(s) have been tested: On (Pri) <u>8/9/19</u> at <u>55,000 ft</u> (Sec) <u>8/9/19</u> at <u>55,000 ft</u> The ELT is installed per FAR 91.207. Battery Replacement date: <u>OCT 2025</u> The ATC Transponder Tests and Inspections required by FAR 91.413 were performed this date and found to comply with FAR 43, Appendix F. 1. Make <u>Garmin</u> Model <u>GTX335R</u> S/N <u>3EFO22158</u> 2. Make <u>Garmin</u> Model <u>GTX345R</u> S/N <u>3EHO25379</u> Details of this inspections are on File at this facility under: AFT S/N <u>4698109</u> Date <u>10/4/19</u> The Automatic Pressure Altitude Reporting Equipment Test required by FAR Part 91.217 have been performed this date: <u>10/4/19</u> The standby altimeter and static system test required by FAR Part 91.411 have been performed. The standby altimeter has been tested to <u>40,000 ft</u> on <u>8/25/19</u> I find that the aircraft meets the requirements for the certification requested and have issued a Standard Airworthiness Certificate. Signature: [REDACTED] Date: <u>DEC 07 2019</u> M. D. GERTHOFFER [REDACTED]		
Total To Carry Forward		7.9			

Registration No. N 89M

and Remarks	Signature	Certificate No.
Piper installed AMSAFE Aviation Inflatable Restraints for the Pilot and Co-Pilot Seats Per STC SA02276AK. (Ref: Dwg. 46G00A000 Complete Airplane - PA-46-600TP and Page15 PC 206 PLR.)		
Signed: 		
 M. D. GERTHOFFER PIPER AIRCRAFT, INC.		

MAKE: Piper
MODEL: PA-46-600TP
S/N: 4698109
REG NO: N89MA
WORK ORDER
3634-12-2019

Piper Aircraft, Inc.

2926 Piper Drive
Vero Beach, FL 32960
Phone: 772-567-4361

DATE: 12/23/2019
A/C TSN: 7.9
Landings:
HOBBS: 7.9

Airframe Entries

Removed engine m/n PT6A-42A, s/n PCE-RM0886 from this Piper PA46-600TP s/n 4698109. Installed engine m/n PT6A-42A, s/n PCE-RM0886 on Piper PA46-600TP s/n 4698109 per Piper M/M 767-617, chapter 71-00-00 and 71-20-00. Production Work Order M00881965.

Maintenance Release

The aircraft and/or component(s) on N89MA was repaired and inspected in accordance with current rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this Repair Station, ZPAR410X, under Work Order No. 3634-12-2019.
Dated: 12/23/2019

DATE: 12/23/2019

SIGNED: 

Work Order: 3634-12-2019

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AIRCRAFT LOG

Date	Aircraft Time		Recorder Reading	Maintenance
	This Date	Total		

MAKE: Piper
MODEL: PA46-600TP
S/N: 4698109
REG. NO: N89MA
WORK ORDER:
3634-12-2019

Piper Aircraft, Inc.

2926 Piper Drive
Vero Beach, FL 32960
Phone: 772-567-4361

DATE: 1/3/2020
A/C TSN: 79
Landings
HOBBBS: 79

Airframe Entries

Removed Fuel Control Unit m/n 3129672-01, s/n 21995211. Installed Fuel Control Unit s/n 21859412 per Piper M/M 767-617, chapter 73-20-00.

Maintenance Release

The aircraft and/or component(s) on N89MA was repaired and inspected in accordance with current rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this Repair Station, ZPAR410X under Work Order No. 3634-12-2019, Dated 1/3/2020.

DATE: 1/3/2020

SIGNED: [REDACTED]

Work Order: 3634-12-2019

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Total To Carry Forward				

Registration No. _____

and Remarks

Signature

Certificate No.

MAKE Piper
MODEL PA-46-000TP
S/N 4N98104
REG NO N89MA
WORK ORDER
3685-01-2020

Piper Aircraft, Inc.

2926 Pipel Drive
Vero Beach, FL 32960
Phone: 772-567-4361

DATE: 1/17/2020
A/C TSN: 8.4
Landings:
HOBBS: 8.4

Airframe Entries

Removed steering horn Piper p/n 85154-012. Planed steering block surface per Piper drawing number 85154. Re-installed and adjusted steering horn per Piper M/M 767-617, chapter 32-50-00.

Maintenance Release

The aircraft and/or component(s) on N89MA was repaired and inspected in accordance with current rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this Repair Station, ZPAR410X under Work Order No. 3685-01-2020.
Dated 1/17/2020

DATE 1/17/2020

SIGNED: _____

Work Order: 3685-01-2020

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AIRCRAFT LOG

Date	Aircraft Time		Recorder Reading	Maintenance
	This Date	Total		
 TBM DAHER  Muncie Aviation Company An Employee Owned Company  Piper				
<u>Reg. Mark</u>	<u>Hobbs</u>	<u>Make</u>	<u>Model</u>	<u>S/N</u>
N89MA	20.1	Piper	PA-46-600TP	4698109
Upgraded G3000NG operating system from 2975.14 to version 2975.15, per Piper Service Letter 1352, Dated Apr 10, 2020, using Service SW 2975.15-PA-46-600TP G3000NG and DWG NO.88678. Reloaded all optional Avionics systems and features. Ramp checked G3000NG system per Piper M600 Line Maintenance Manual, P/N 190-02157-00, July 2017, Revision 2.				
The aircraft/component identified above was repaired/inspected in accordance with current Regulations of the Federal Aviation Administration and found airworthy, and is approved for return to service for work performed Details of the repair/inspection are on file at this C.R.S under Shop Order No. <u>A-20-2726</u>				
Date <u>5/25/2020</u> Signed <u>[Redacted Signature]</u> Inspector For Muncie Aviation Company				
CRS# AJVR135C, Muncie, Indiana 47303 765-289-7141				
Total To Carry Forward				

Signature _____
Sun Aviation, Inc. Municipal Airport, Vero Beach, FL 32961 (772) 562-9257



Transport
Canada

Transports
Canada

TP 14182
(Revised 05/2005)

Engine Logbook

TC-1001185



05/2005

Canada

Volume #: 1

Opened on: 24 NOV 2013

ENGINE DETAILS

1. Manufacturer Pratt & Whitney Canada Corp.

2. Type/Model/Series E.T.C. E-12 PT6A-42A B/S: 1415

3. Serial Number PCE- RM0886

Section 1: Record of engine maintenance and elementary work

Date --/--/--	Time since new	Time since overhaul	Total cycles	Details of task
24 NOV 2019	0.0	N/A	0	New engine final acceptance test and inhibiting run completed satisfactorily and is in condition for safe operation.
19 DEC 2019	0.0	N/A	0	"Applied Procyon corrosion inhibitor to compressor inlet case per Pratt & Whitney Maintenance Manual F/N 3021442 Chapter 72-00-00."

ENGINE MODEL (#2): **Piper Aircraft, Inc.**
PT6A-42A
ENGINE S/N (#2): 2926 Piper Drive
PCE-RM0886 Vero Beach, FL 32960
REG. NO. N89MA Phone: 772-567-4361
WORK ORDER
3634-12-2019

DATE: 12/23/2019
Airframe TT:
ENG TT (#2): 0
ENG TC (#2):
HOBBS: 7.9

Engine #2 Entries

Installed this engine m/n PT6A-42A, s/n PCE-RM0886 on Piper PA46-600TP s/n 4698109.

Maintenance Release

The aircraft and/or component(s) on N89MA was repaired and inspected in accordance with current rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this Repair Station, ZPAR410X, under Work Order No. 3634-12-2019, Dated 12/23/2019.

DATE: 12/23/2019

SIGNED: [REDACTED]

Work Order: 3634-12-2019

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ENGINE MODEL (#2): **Piper Aircraft, Inc.**
PT6A-42A
ENGINE S/N (#2): 2926 Piper Drive
PCE-RM0886 Vero Beach, FL 32960
REG. NO. N89MA Phone: 772-567-4361
WORK ORDER
3634-12-2019

DATE: 1/3/2020
Airframe TT:
ENG TT (#2): 0
ENG TC (#2):
HOBBS: 7.9

Engine #2 Entries

Removed Fuel Control Unit m/n 3129672-01, s/n 21995211. Installed Fuel Control Unit s/n 21856412 per Piper M/M 767-617, chapter 73-20-00.

Maintenance Release

The aircraft and/or component(s) on N89MA was repaired and inspected in accordance with current rules of the Federal Aviation Regulations and was found Airworthy for return to service. Pertinent details of the repair are on file at this Repair Station, ZPAR410X, under Work Order No. 3634-12-2019, Dated 1/3/2020.

DATE: 1/3/2020

SIGNED: [REDACTED]

Work Order: 3634-12-2019

Printed by EBis 3 (datcomedia.com)

Signature

AME
ACA/AMO
SCA/AMO

NG/NO 35250 RPM, at 850 SHP/δ√0

ITT Trim: 24.4 C°

T5 Trim Resistance: 48.8 Ohms

R. WEISTRA

1119

T.C. 4-58
NO. 123

Scott Swanson A+P

HARTZELL

PROPELLER LOGBOOK

PROPELLER MODEL 5D3-N338A1

PROPELLER S/N SF 199

LOGBOOK # 1

Description of all operations pertaining to Airworthiness Directives,
Service Documents, Overhaul, Major or Minor Repair, and Inspections.

Date

Propeller
TSN TSO

A/C
Hrs

Propeller Log

Date: 10/11/19 Hobbs Time: 1.8

Aircraft S/N: 4698109 Reg. Number: N89MA

Prop Model: SD3-N33FA1 S/N: SF199

Complied with Hartzell Propeller Owner's Manual 485.

6-6 THRU 6-10
Performed Lubrication of Prop by Manufacturer during Flight
Testing with Aeroshell #6 after 1 to 2 hours operation.

Signature: _____

Name: David T Wallace JR A&P Certificate Number: _____

 Piper

PIPER AIRCRAFT, INC.

MAKE: Piper
MODEL: PA46-600TP
S/N: 4698109
REG. NO: 89MA
WORK ORDER:
11394-06-2020



Flightline Group, Inc.

3250 Capital Circle SW
Tallahassee, Florida 32310
Phone: 850-576-3515

DATE: 7/1/2020
A/C TSN: 48.1
Landings:
HOBBS: 48.1

Airframe Entries

Performed Piper Warrantable 1st 50hr Inspection.....Installed Pm-15810 radome boot Ref. PM Research Shop manual.....Replaced R/H Nav light lens assy Ref. Piper MM 33-40-00.....Replaced LMG tire P/N: 18x5.5-8PLY and O-ring P/N: MS28775-261, Ref MM 32-40-00.....Checked both MLG adjustment angles and adjusted alignment, Ref. MM 32-10-00.....Rotated R/H MLG tire on wheel, replaced wheel half O-ring P/N: MS28775-261.....Replaced LH MLG strut assembly PN: 46W32A001-901, Ref. MM 32-10-00. Serviced strut with hydraulic fluid & nitrogen Ref. MM 12-10-00.....Installed Airframe Interface Kit BM-AIK2A from Enhanced Flight for BatteryMINDER maintenance charger IAW AC43.13/1B.....Adjusted NLG squat switch, Ref MM 32-60-00.....R & R the avionics cooling fan P/N: 891-535, S/N on: 003-017997, S/N off: 003-017249. Fan tests good, REF MM 34-20-00.....C/W Piper SL 1281 HALO Autoland Activation. Installed Kit P/N: 88670-701 and POH revision 4. Post installation checks and flight test good.

The aircraft, engine, propeller or appliance identified above was repaired and inspected referencing current regulations of the FAA and is approved for return to service.

DATE: 7/1/2020

SIGNED: [Redacted]

Work Order: 11394-06-2020

Stephanie Nita, A&P [Redacted]

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ENGINE MODEL (#1):
PT6A-42A
ENGINE S/N (#1):
PCE-RM0866
REG. NO: 89MA
WORK ORDER:
11394-06-2020



Flightline Group, Inc.

3256 Capital Circle SW
Tallahassee, Florida 32310
Phone: 850-576-3515

DATE: 7/1/2020
Airframe TT: 48.1
ENG TT (#1): 48.1
ENG TC (#1):
HOBBS: 48.1

Engine #1 Entries

Performed Piper Warrantable 1st 50hr Inspection.....C/W Engine Compressor Desalination Wash IAW P&W MM 71-00-00.

The aircraft, engine, propeller or appliance identified above was repaired and inspected referencing current regulations of the FAA and is approved for return to service.

DATE: 7/1/2020

SIGNED: [Redacted]

Work Order: 11394-06-2020

Stephanie Nita, A&P [Redacted]

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PROP MODEL (#1):
503 H338A1
PROP S/N (#1): SF199
REG. NO: 89MA
WORK ORDER:
11394-06-2020



Flightline Group, Inc.

3250 Capital Circle SW
Tallahassee, Florida 32310
Phone: 850-576-3515

DATE: 7/1/2020
A/C TSN: 48.1
PROP TT (#1): 48.1
TSPOH (#1):
HOBBS: 48.1

Prop #1 Entries

Performed Piper Warrantable 1st 50hr Inspection.

The aircraft, engine, propeller or appliance identified above was repaired and inspected referencing current regulations of the FAA and is approved for return to service.

DATE: 7/1/2020

SIGNED: [Redacted]

Work Order: 11394-06-2020

Stephanie Nita [Redacted]

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