

Registration No. N641WA

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

Serial No.: 4698141 Type Certificate No.: A25SO
E99013 E82079 E82066

Colors: ARGENT SPARKLE / ROBIN BLUE & CUMULUS GRAY

Engine Manufacturer: PRATT & WHITNEY Serial Numbers: Single PCE-RM0909

Original Engine Model: PT6A-42A Left _____

Propeller Manufacturer: HARTZELL Right _____

Original Propeller Model: 5D3-N338A1 Hub or Serial Number: Single SF244

Left _____

Right _____

Blade Numbers

Left

Right

C4956

C5025

C4957

C4900

C5022

2020 MODEL

COMPLIANCE WITH FAA AIRWORTHINESS DIRECTIVES

A. D. No. and Date	Method of Compliance (See Log for Details)	Time on Aircraft	Date of Compliance	Signature and Certificate No.
All applicable Federal Aviation Administration Airworthiness Directives, through Bi-Weekly <u>2020-17</u>, have been complied with at the time of manufacture. Signed:  PIPER AIRCRAFT, INC.		6.1	AUG 27 2020	
A.D. 2020-16-08 Aspen Avionics, Inc., Evolution Flight Display (EFD) EFD1000 Primary Flight Display, EFD1000 Multi-Function Display, and EFD1000 Emergency Backup Display is found N/A by Part Number 910-00001-504 Rev. A S/N <u>28672</u>. Signed: 				

AIRCRAFT LOG

Date	Aircraft Time		Recorder Reading	Maintenance
	This Date	Total		
AUG 27 2020	Brought Forward →	6.1		
				The Altimeter and Static System Test required by FAR 91.411 have been performed. The altimeter(s) have been tested: On (Pri) <u>5/28/20</u> at <u>55,000 ft</u> (Sec) <u>5/28/20</u> at <u>55,000 ft</u> The ELT is installed per FAR 91.207. Battery Replacement date: <u>JUL 2026</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>3EF023353</u> 2. Make <u>Garmin</u> Model <u>GTX345R</u> S/N <u>3EH028035</u> Details of this inspections are on File at this facility under: AFT S/N <u>46981</u> Date <u>7/16/20</u>
				The Automatic Pressure Altitude Reporting Equipment Test required by FAR Part 91.217 have been performed this date: <u>7/16/20</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>4/3/20</u> I find that the aircraft meets the requirements for the certification requested and have issued a Standard Airworthiness Certificate. Signature  <u>AUG 27 2020</u> STE 
Total To Carry Forward		6.1		

14 641 WA

PIPER AIRCRAFT, INC.

AIRCRAFT LOG

Date	Aircraft Time		Recorder Reading	Maintenance
	This Date	Total		
	Brought Forward →			

MAKE: Piper
MODEL PA46-600TP
S/N: 4698141
REG. NO: N641WA
WORK ORDER
3884-09-2020

Piper Aircraft, Inc.

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

DATE: 9/9/2020
A/C TSN: 15.7
Landings:
HOBBS: 15.7

Airframe Entries

Right brake pedal soft. Bled brakes per Piper M/M 767-617, chapter 12-10-00.... Hydraulic pump breaker trips and left landing gear sags after 1 hr in flight. Removed hydraulic pump assembly Piper p/n 461-770, s/n 1575. Installed new hydraulic pump assembly, s/n 1596 per Piper M/M 767-617, chapter 29-10-00.... Struts low. Serviced main gear and nose gear struts per Piper M/M 767-617, chapter 12-10-00.

Maintenance Release

The aircraft and/or component(s) on N641WA 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. 3884-09-2020, Dated 9/9/2020.

DATE: 9/9/2020

SIGNED: [REDACTED]

Work Order: 3884-09-2020

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Total To Carry Forward				

and Remarks

Signature

Certificate No.



4300 S. KENNEDY ST., BOISE, IDAHO 83705-8132, U.S.A.

PHONE 208-338-1800

Date: **29 December 2020****AIRCRAFT LOGBOOK INSERT**MAKE: **PIPER** MODEL: **PA46-600TP** N#: **N641WA** S/N: **4698141** A/C TT: **56.4**Inspection Items addressed at This Time:

- Initial 50 Hour Inspection per Piper Aircraft Inc. PA-46-600TP Maintenance Manual P/N 765-044.
- 50-hour propeller heater inspection per AMM 30-60-00.
- 50-hour oleo strut extension and leak inspection per AMM 05-30-00.
- 30-day cabin portable fire extinguisher condition and serviceability inspection per AMM 05-30-00.
- 90-day hydraulic pump reservoir fluid level check per AMM 05-30-00.
- 90-day brake reservoir fluid level check, condition and serviceability inspection per AMM 05-30-00.
- 90-day emergency locator transmitter self-test per AMM 05-30-00.
- 90 days visually check oxygen cylinder installation for leakage, corrosion, bulges, gouges, distortion, and security of mounting.

Other Maintenance performed:

- 1) Positioned spring to capture groove in locking block for L/H AFT PAX seat.
- 2) Removed clinch nuts and installed new nutplates on L/H wing 1/B fwd fuel panel, P/N NAS1474-A08. Rivets and nutplates installed wet. Ref SL No. 1221
- 3) Tightened pilots right brake fittings IAW AMM 91-10-00. Red brake system IAW AMM 32-40-00.
- 4) Tightened feed line to O2 bottle regulator and serviced to 1850 psi in reference to AMM 35-10-00.
- 5) Installed L/H and R/H fuel filler cap lanyard's with new P/N# MS27380-1 (2 EA) IAW ECO #004576G Rev. C.
- 6) Replaced L/H and R/H wing tip lens covers with new, P/N 46W570414-802 & P/N 46W570414-801 ref AMM 33-40-00.
- 7) Performed adjustment of aileron bridle cable tension IAW Piper PA-46-600TP AMM 22-10-00
- 8) Performed adjustment of the aileron, elevator and rudder cable tensions ref Piper PA-46-600TP AMM 27-00-00
- 9) Replaced elevator trim cable with NEW, P/N: 82815-056, IAW AMM 27-30-00.
- 10) Adjusted idle Ng with Ground/ low idle adjustment within limits reference to AMM 76-00-10-00.
- 11) Corrected various minor interior and exterior discrepancies. See Work Order Detail report for details.

-- END --

MAINTENANCE RELEASE: I certify that this Aircraft has been inspected in accordance with a **50 Hour Initial Inspection** and is determined to be in airworthy condition. The Aircraft and/or component identified above was inspected and/or repaired, per current Regulations of the Federal Aviation Administration, and is subsequently approved for return to service. Pertinent details are on file at this agency under Shop Work Order No. 17197. Airworthiness Directives have been checked through BW2020-26. Date: **29 December 2020**.

Signature of authorized Person

Markus Laumann

For FAA CERTIFIED REPAIR STATION NO. FE6R532N

Preliminary Inspection

Reg. # N641WAS/N4698141 W/O 17197 A/C TT/Hobbs 56.4

This inspection is to establish the baseline condition of the article before maintenance performed.

- Determine if the article is eligible for return to service and recertification under our Repair Station ratings and if appropriate current technical data and tooling is available and on hand for the specified work. ☒ YES ☐ NO

NOTE: When Technical Data from an unknown source is provided by a customer the Chief Inspector or his delegate must first verify and approve the data for use: APPROVED ☐ YES ☒ NO ☐ N/A

- Out of Service Placard Installed
- Video File completed of interior and exterior
- Aircraft Flight Log incoming Squawks
- State of preservation, traceability of life limits and/or time since overhaul, identification and tagging of bench components.
- Functional operation prior to disassembly of bench components.

C/W [REDACTED] 892 N/A X
[REDACTED] 892
N/A
N/A

NOTE: Inspection required only in area that will be worked in.

- Visual inspection completed for the following:

Area: Airframe
 Area: Engine 1
 Area: Engine 2
 Area: Engine 3
 Area: Engine 4
 Area: APU
 Area: Interiors
 Area: Avionics
 Area: Avionics Bench

C/W [REDACTED] 892 N/A X
[REDACTED] 892 X
X
X
X
[REDACTED] 892 X
X
X

- ☒ NO Discrepancy

PC12/47E ONLY: Verify the following CD'S are with the aircraft:

Pilatus LDI Software
 Honeywell Options Disc
 Honeywell FMS Performance Database
 Honeywell KGS 7100-7200 Cert File
 Honeywell Pilatus Build Disc.
 Honeywell Primus Apex Tools

YES NO
☐ ☐
☐ ☐
☐ ☐
☐ ☐
☐ ☐
☐ ☐

Customer Approval Sheet

Signature [REDACTED]

Date 12/9/20

To be performed by an authorized Piper Service Center.

PIPER AIRCRAFT, INC.
WARRANTABLE 1ST 50 HOUR INSPECTION REPORT

Model Name: M600	Model No.: PA-46-600TP	Serial No.:	Registration No.:
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DESCRIPTION (See Notes 1 and 2)	Initials	DESCRIPTION (See Notes 1 and 2)	Initials
A. PROPELLER GROUP			
1. Remove spinner. Inspect spinner and spinner bulkhead for cracks, corrosion and damage.....		10. Inspect all flexible lines (fuel, hydraulic, pneumatic and oil) for leaks, abrasions, cuts and secure connections. Replace upon condition or per Special Inspection.....	
2. Inspect blades for nicks, cracks, erosion and evidence of strikes.....		11. Inspect engine mounts for cracks, damage and loose mounting bolts. Retorque engine mount bolts.....	
3. Check for grease and oil leaks.....		12. Inspect condition of starter-generator cables. Inspect ground connection for corrosion and security.....	
4. Inspect hub parts for cracks, corrosion, wear, and security. Check carefully around grease fittings for cracks.....		13. Inspect alternator and air conditioning compressor drive belt tension using an appropriate belt tensiometer. If required, adjust tension per Adjustment of Drive Belt Tension, 21-50-00; and Alternator Drive Belt Tension, 24-30-00.....	
5. Conduct Propeller Heater Inspection, 50 Hour, per 30-60-00.....		14. Inspect bleed air heat exchanger and precooler for cleanliness and blockage. Check inlets and outlets for blockage, security and leakage of duct couplings.....	
6. Lubricate propeller per Lubrication Chart, 12-20-00.....		15. Complete compressor desalination wash and compressor turbine desalination wash per Pratt & Whitney Canada Maintenance Manual No. 3021442, 71-00-00, Power Plant - Cleaning (page 701).	
7. Install spinner.....		16. Lubricate power plant. (See Lubrication Chart, 12-20-00, and Pratt & Whitney Canada Maintenance Manual P/N 3021442.)	
B. ENGINE GROUP			
CAUTION: REFER TO PRATT & WHITNEY CANADA MAINTENANCE MANUAL P/N 3021442 AS REQUIRED FOR DETAILED PROCEDURES.		17. Install engine cowl. (See 71-10-00.)	
1. Review exceedances. Using appropriate vendor publications, determine and accomplish corrective action, as required.....		C. CABIN AND COCKPIT GROUP	
NOTE: In addition, print (or copy) the list of exceedances and attach it to the inspection form. For each listed exceedance, make a notation on the inspection form detailing the diagnosis, publications consulted, and corrective action required. Make a separate logbook entry for each corrective action accomplished in response to an exceedance.		1. Inspect cabin door, latches, and hinges for operation & security.....	
2. Remove engine cowl. (See 71-10-00.)		CAUTION: WITH CREW SEATS OCCUPIED AND AT THE LOWEST VERTICAL POSITION, CHECK SEATS FOR PROPER ENGAGEMENT OF PINS TO SEAT TRACK.	
3. Clean and inspect cowl. and covers for cracks, distortion and loose or missing fasteners.		2. Inspect crew seats for proper vertical and horizontal operation.....	
4. Inspect oil lines and fittings for leaks, security, chafing, dents, cracks and routing.		3. Inspect seats and attaching brackets and hardware for condition, security, and operation.....	
5. Inspect electrical connections on ignition exciter for safety and security.		4. Inspect seat belts and shoulder harnesses per 25-10-00, Restraint System	
6. Inspect condition of inlet air ducts.		5. Verify yellow protective cover and red silicon tube have been removed from each fixed oxygen generator canister. See Figure 2 in 35-20-00	
CAUTION: WHEN ENGINE IS NOT RUNNING, ANY ATTEMPT TO MOVE POWER LEVER INTO REVERSE POSITION, WITHOUT DISCONNECTING PROPELLER PUSH-PULL WIRE ROPE CLEVIS FROM PROPELLER CONTROL CAM, WILL RESULT IN BENDING OR KINKING OF WIRE ROPE.		6. Check operation of strobe, landing, navigation, cabin, and instrument lights	
7. Inspect power lever, condition control, propeller governor and propeller reversing linkage for condition, travel and operation.....		7. Check fluid in hydraulic pump reservoir. Fill as required.	
8. Inspect exhaust stacks for cracks, distortion and security.		8. Cycle each circuit breaker with airplane power off.....	
9. Inspect propeller shaft seal for oil leaks.		9. Check bus isolation diodes (i.e. - CR331L and CR331R) per 24-30-00, Electrical System Functional Test.....	
		10. Check portable fire extinguisher for condition and security. See 26-20-00.....	

Owner:

Total Time on Airplane:

PIPER AIRCRAFT, INC.
WARRANTABLE 1ST 50 HOUR INSPECTION REPORT

DESCRIPTION (See Notes 1 and 2)

Initials

D. FUSELAGE AND EMPENNAGE GROUP

1. Inspect structure for cracks, dents, security of attachments, cleanliness, and loose or pulled fasteners.

CAUTION: PRESSURIZED FLIGHT IS PROHIBITED WITH DISCOLORATION, CRACKS, OR CRAZING IN WINDSHIELD OR WINDOWS.

2. Inspect windshield and windows for nicks, scratches, cracks, crazing, and discoloration. (See 56-00-00.)
3. Check fuel sump drains for water and proper operation.
4. Drain pitot/static lines. (Refer to 34-00-00.)
5. Inspect vertical fin and rudder surfaces for damage.
6. Inspect horizontal stabilizer and elevator surfaces for damage.
7. Inspect battery and battery compartment for corrosion, etching, condition, and security. (Flush compartment as required. Refer to 12-10-00.)
8. Check autopilot servos and controls, bridle cables, turnbuckles, guides, and pulleys for safeties, condition and wear, proper installation and function. Check bridle cable tension per specifications in 22-10-00..
9. Inspect aileron, rudder, elevator, and elevator trim cables; and cable terminals, turnbuckles, guides, fittings, and pulleys for safety, condition, and operation per Control Cable Inspection, 27-00-00
10. Inspect rudder, elevator, and elevator trim cable tension per 27-00-00, Chart 2. Use a tensiometer
11. Lubricate per Lubrication Chart, 12-20-00.....

E. WING GROUP

1. Inspect exterior surfaces, skins, and tips for damage and loose or missing fasteners
2. Check security of ailerons, hinges, and attachments.
3. Inspect aileron for security and condition.....
4. Inspect aileron cables and cable terminals, turnbuckles, fittings, guides, pulleys, and bellcranks for safety, condition, and operation per Control Cable Inspection, 27-00-00.....
5. Inspect aileron cable tension per 27-00-00, Chart 2. Use a tensiometer .
6. Inspect flaps and attachments for damage and operation

NOTE: If flap extension at speeds exceeding V_{FE} is suspected, see 5-50-00 - Flaps Extended Above Maximum Flap Extension Speed (V_{FE}).

7. Inspect static wicks per Static Wicks, Inspection, 23-60-00. (Replace as required.).....

To be performed by an authorized Piper Service Center.

DESCRIPTION (See Notes 1 and 2)

Initials

WARNING: PHYSICAL MANIPULATION OF LIFT TRANSDUCER ON PA-46 SERIES AIRPLANES MAY RESULT IN ERRONEOUS STALL WARNINGS NECESSITATING CALIBRATION OF SYSTEM. REFER TO CHAPTER 27.

8. Inspect lift transducer for security of attachment, spring centering of switch blade, and corrosion. Check heat element for operation.....
9. Lubricate per Lubrication Chart, 12-20-00.....
10. Drain wing fuel tank sumps. Inspect fuel for contaminants, flush tank as required.
11. Check fuel tank fillers marked "Jet Fuel Only."
12. Check fuel filler cap, O-ring, and receptacle for condition.....
13. Check radome for erosion, cracks, or delamination.
14. Inspect wing tip navigation and strobe lights for broken lenses, security, wiring, and attachment.....

F. LANDING GEAR GROUP

1. Place the airplane on jacks. (See 7-10-00.)
2. Inspect tires for cuts, uneven or excessive wear, and slippage.
3. Remove wheels, clean, inspect and repack wheel bearings.....
4. Deflate tires. Retorque wheel bolts to value stated on wheel placard. Inflate tires and reinstall wheels on airplane.
5. Check tires for proper pressure. (Refer to 12-10-00.)
6. Inspect gear fork for damage
7. Inspect struts for fluid/pressure leaks and scoring.
8. Lubricate per Lubrication Chart, 12-20-00.....
9. Check actuating cylinders for leakage and security.
10. Verify gear are down and locked, and then, remove jacks.....
11. Inspect wheel alignment, realign as required.....

G. SPECIAL INSPECTIONS

Review inspections in 5-30-00. Perform all special inspections applicable to your aircraft and currently due per the given inspection interval.....

To be performed by an authorized Piper Service Center.

PIPER AIRCRAFT, INC.
WARRANTABLE 1ST 50 HOUR INSPECTION REPORT

DESCRIPTION (See Notes 1 and 2)	Initials	DESCRIPTION (See Notes 1 and 2)	Initials
H. OPERATIONAL INSPECTION		I. GENERAL	
NOTE: Refer to Note 3 prior to starting engine or taxiing airplane.			
RAMP (Engine Off)			
1. Check reverse gate lockout.....		1. Aircraft conforms to FAA Specifications.....	
2. Check ELT. (See 25-60-00, ELT Testing.).....		2. Latest revision of applicable FAA Airworthiness Directives complied with and appropriate compliance records completed.....	
3. Check electronic equipment operation.....		3. Current and correct FAA Pilot's Operating Handbook is in the aircraft. ...	
4. Check operation of flight controls.....		4. Check airplane for required placards as identified in Section 2 of the POH.....	
5. Check operation of flaps.....		5. Appropriate entries made in the Aircraft and Engine Log books.....	
6. Check avionics cooling blower operation.....		6. Airworthiness and Registration Certificates in the aircraft and properly displayed.....	
7. Set clock.....		7. Aircraft Equipment List, Weight and Balance and FAA Form 337 (if applicable) are in the aircraft and in proper order.....	
RAMP (Engine Running)			
8. Check fuel pumps.....		8. Operational inspection and run-up completed.....	
9. Check fuel quantity and flow gauges.....		9. Aircraft cleaned and lubricated after wash (as required).....	
10. Check oil pressure and temperature.....		10. Event Inspection Record completed.....	
11. Check output on generator and alternator.....		11. Discrepancy Record completed.....	
NOTE: Generator should be set at 28.4 ± 0.2 VDC and the alternator should be set at 27.0 ± 0.2 VDC. See Voltage Regulation and Control, 24-30-00.		12. Equipment Change and Overhaul Record completed.....	
12. Check parking brake and toe brakes.....		J. NOTES	
13. Check cabin heat and defroster operation.....		1. Refer to Piper's Customer Service Information File P/N 1753-755 (available on Piper.com) for latest revision dates to Piper Inspection Reports/Manuals and the maintenance manual. References to Chapter/Section are to the appropriate chapter/section in the Airplane Maintenance Manual (P/N 767-617).	
14. Conduct Pneumatic Deice System Functional Test in 30-10-00.....		2. Inspections must be performed by persons authorized by the FAA or appropriate National Aviation Authority.	
15. Check power lever operation.....		3. Refer to Section 4 of the Pilot's Operating Handbook for preflight and flight check list.	
16. Check hydraulic topping governor (HTG). (See 61-20-00, Overspeed Governor - Operational Check.).....			
17. Check engine idle is 63-65 percent Ng.....			
18. Check propeller RPM is not less than 1200.....			
19. Check propeller smoothness.....			
20. Check air conditioning compressor clutch operation.....			
21. Check emergency pressurization solenoid valve operation. I.E., cycle ECS switch to "EMER" and then to "NORM" or "OFF". Verify you hear the emergency pressurization solenoid valve open and close.....			
22. Check fuel shutoff.....			

Dealer:	Mechanic:	Certificate No.:	Date:
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MARCH 23, 2018

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PA-46-600TP M600
P/N 765-044