

DATE

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DES MOINES  
FLYING SERVICE

INTERNATIONAL AIRPORT  
PO BOX 35126 - DES MOINES, IOWA 50315-0302  
TELEPHONE (515) 256-5300 - FAX (515) 256-5537  
dmfs.com

Date 07/01/2014

N515Z

PA-31T

31T-7820061

HOBBS: 930.5

Complied with CFR 91.411.

I certify that the altimeters and static system tests required by FAR 91. 411 have been performed. The altimeters have been tested to 30,000 feet. Date 07/01/2014. Pilot Altimeter Smith Type 4 WL 1403 AM/MSI/L SN AE 306. Copilot Altimeter United Instruments PN 5934PA-3A.86 SN 400215. Des Moines Flying Service Check list # 5788.

Complied with CFR 91.413 and CFR 91.217.

I certify that the transponders and mode C/S data correspondence tests and inspections required by FAR 91.217 and 91.413 have been performed in accordance with FAR 43 Appendices "E" and "F". Transponder KXP 755 PN 066-1041-00 #1 SN 4802, #2 SN 2986

The aircraft, airframe, aircraft engine, propeller, or appliance identified above, was repaired, and inspected in accordance with current regulations of the Federal Aviation Agency and is approved for return to service. Pertinent details of the repair are on file at this agency under Work Order No. 07108

Signed 07/01/2014

*Joshua Boyd*

Joshua Boyd

Des Moines Flying Service, Inc.,

FAA CRS G9CR485J



Iterations

Number of  
specific entries.)

Only to be complete

CONDITION 1: US

Inspector Initial /  
Stamp

CONDITION 2: L



CONDITION 3:

Inspector Initial /  
Stamp

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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19				<p style="text-align: center;">DES MOINES INTERNATIONAL AIRPORT            PO BOX 35126 - DES MOINES, IOWA 50315-0302            TELEPHONE (515) 256-5300 - FAX (515) 256-5537            dmfs.com</p> <p style="text-align: center;">N 515Z PA-31T 31T-7820061</p> <p>HOBBS: 930.5 TOTAL: 8061.8</p> <p>Removed Bendix 5487G Part Number 4000493-8501 Serial Number 1594 for repair, re-installed same Bendix 5487G Part Number 4000493-8501 Serial Number 1594 after repair.            Repaired aircraft wiring to correct the pilots slaved compass system not slaving properly.</p> <p>Removed Bendix Radar Indicator IN-1102A Part Number 4000964-0201 Serial Number 1196 and Bendix Radar Transceiver RT-131A Part Number 4000763-3101 Serial Number 3654 for repair, owner elected not to repair, reinstalled same Bendix Radar Indicator IN-1102A Part Number 4000964-0201 Serial Number 1196 and Bendix Radar Transceiver RT-131A Part Number 4000763-3101 Serial Number 3654 <i>not repaired not returned to service.</i></p> <p>Removed KDM-705A Part Number 066-1037-08 Serial Number 4109 for repair, owner elected not to repair, re-installed same KDM-705A Part Number 066-1037-08 Serial Number 4109 <i>not repaired not returned to service.</i></p> <p>The aircraft, airframe, aircraft engine, propeller, or appliance identified above, was repaired, and inspected in accordance with current regulations of the Federal Aviation Agency and is approved for return to service. Pertinent details of the repair are on file at this agency under Work Order No 30140.</p> <p>Date Signed 07/01/2014: <u>Arnold D. Hill</u> <b>INSP. #13</b>            Arnold D. Hill            Des Moines Flying Service, Inc., FAA CRS G9CR4851</p>
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DATE	RECORDING TACK TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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### SEMO Aviation Services LLC

Poplar Bluff Municipal Airport, Poplar Bluff, MO 63901 (573) 714-6385

**Airframe**  
**Piper PA31T**  
**Hobbs: 981.9**  
**Total Time: 8113.2**

**N515Z**  
**S/N: 31T-7820061**  
**Date: 10/14/2015**

Completed event 1 and event 2 inspection at this time. Replaced the gyro central air filter P/N D9-18-1. Replaced garter filter 2 ea. p/n: 10-01333. Removed, cleaned, and reinstalled propeller lever rope cable. Right-hand forward facing seat will not lock; straightened tabs and adjusted, completed ops check, no defects noted. Inspected and charged AC system. Sumped all fuel sumps until contamination was gone. Right-hand main landing gear has excessive play; inspected and replaced bushings 2 ea. p/n: 453-867 and 2 ea. p/n: 453-778. C/W AD 1982-27-13 R2, by visual inspection, no defects noted. Next due at Hobbs 1081.9. C/W AD 2003-24-07 via inspection with bore scope, no defects noted. Next due at Hobbs 1081.9. C/W AD 2009-13-06 via visual inspection and lubrication, no defects noted. Next due at Hobbs 1081.9. Inspection was done in accordance with Piper Progressive Inspection manual P/N 761-520.

This aircraft, airframe, aircraft engine, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service with respect to the work performed.



Dustin Ramsey A&P 3329376 IA

# SEMO Aviation Services LLC

Poplar Bluff Municipal Airport, Poplar Bluff, MO 63901 (573) 714-6385

**Airframe**

**Piper PA31T**

**Hobbs: 991.3**

**Total Time: 8122.6**

**N515Z**

**S/N: 31T-7820061**

**Date: 6/13/2016**

**Alterations**  
 (Number of  
 specific entries.)

Removed right tire. Installed new Goodyear Flight Customs III 6.50-10 tire. Serviced AC with 134A refrigerant. Replaced brake disc with 2 new discs p/n: APS 164-03906. Replaced all 32 linings with new linings p/n: APS66-06800. Replaced brake caliper o-rings with 8ea p/n: MS28775-220. Installed 4 new brake shims p/n: 068-03100. Ops check completed, no defects noted.

This aircraft, airframe, aircraft engine, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service with respect to the work performed.

*[Signature]*  
 Dustin Ramsey A&P 3329376 IA

	29.92	0	0	+440
-11	30.50	+531	+520	+967
-3	30.90	+893	+890	+13
+6	30.99	+974	+980	+13
Form SA				
+6	30.99	+974	+100	+120
Form SA1001				

ie, propeller, or appliance  
 pected in accordance with  
 viation Administration and  
 on file at this repair station  
 te 8-12-16

(signature of authorized representative)  
 Static-Air Inc. Z6XR216Y  
 (Repair Station Name) (Certificate No.)  
 P.O. Box 116 Trimble, TN, 38259  
 (Address)

Form# SA1054

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE
19			

**Description of Inspections, Tests, Repairs and Alterations**  
 Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

**SEMO Aviation Services LLC**


Poplar Bluff Municipal Airport, Poplar Bluff, MO 63901 (573) 714-6385

**Airframe**  
**Piper PA31T**  
**Hobbs: 1007.3**  
**Total Time: 8138.6**

**N515Z**  
**S/N: 31T-7820061**  
**Date: 8/25/2016**

Completed event 1 and event 2 inspection at this time. Replaced the gyro central air filter P/N D9-18-1. Replaced garter filter 2 ea. p/n: 10-01333. Installed new pressurization filter p/n: 3344-52. Inspected and charged AC system. Removed Gill G-6381E. Installed new Concorde RG-380E/60K s/n: 40775956, battery tray p/n: W3556011, in accordance with STC SA00843WI. Updated weight and balance, new empty weight 5427.7, center of gravity 132.67, useful load 3572.3. Completed 337. ELT check conducted I/AW FAR 91.207 (d) (1-4) and A8310.1. No defects noted. Installed new ELT battery p/n: BP-1026. ELT battery expires October 2018. Replaced both fuel pumps. 1ea. p/n: RG54200D s/n: B-3291 and p/n: 1C54-1 s/n: 11K19. Removed and replaced circuit breaker p/n: 454-683. C/W AD 1982-27-13 R2, by visual inspection, no defects noted. Next due at Hobbs 1107.3. C/W AD 2003-24-07 via inspection with bore scope, no defects noted. Next due August 2017. C/W AD 2009-13-06 via visual inspection and lubrication, no defects noted. Next due at Hobbs 1107.3. Inspection was done in accordance with Piper Progressive Inspection manual P/N 761-520.

This aircraft, airframe, aircraft engine, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service with respect to the work performed.

  
 Dustin Ramsey A&P 3329376 IA

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b>
19 _____				Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

**SEMO Aviation Services LLC**


Poplar Bluff Municipal Airport, Poplar Bluff, MO 63901 (573) 714-6385

**Airframe**  
**Piper PA31T**  
**Hobbs: 1015.7**  
**Total Time: 8147.0**

**N5007**  
**S/N: 31T-7820061**  
**Date: 9/26/2016**

Removed old N# of N515Z. Painted new numbers N5007.

This aircraft, airframe, aircraft engine, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service with respect to the work performed.

  
 Dustin Ramsey A&P 3329376 IA


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# SEMO Aviation Services LLC

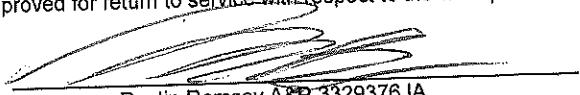
Poplar Bluff Municipal Airport, Poplar Bluff, MO 63901 (573) 714-6385

**Airframe**  
**Piper PA31T**  
**Hobbs: 1028.8**  
**Total Time: 8160.1**

**N5007**  
**S/N: 31T-7820061**  
**Date: 3/25/2017**

Completed event 2 inspection at this time. Replaced the gyro central air filter P/N D9-18-1. Replaced garter filter 2 ea. p/n: 10-01333. Installed new hydraulic filter p/n: AN6235.1A. ELT check conducted I/A/W FAR 91.207 (d) (1-4). ELT battery expires October 2018. Removed right hand auxiliary fuel bladder, installed new fuel bladder p/n: 5721 using all new gaskets. Removed tail light strobe assembly and installed new assembly p/n: A06. Installed new Whelan power supply p/n: A490ATSC s/n: 37637. Removed and replaced elevator horn assembly with new p/n: 4000-004 assembly. C/W AD 2009-13-06 via visual inspection and lubrication, no defects noted. Part F1 next due Hobbs 2028.8, part F2 next due Hobbs 1128.8. C/W AD 2017-02-06 via visual inspections, no defects noted. Next due March 2018. Inspection was done in accordance with Piper Progressive Inspection manual P/N 761-520.

This aircraft, airframe, aircraft engine, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service with respect to the work performed.

  
Dustin Ramsey A&P 3329376 IA


DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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## SEMO Aviation Services LLC

Poplar Bluff Municipal Airport, Poplar Bluff, MO 63901 (573) 714-6385

**Airframe**

**Piper PA31T**

**Hobbs: 1050.5**

**Total Time: 8181.8**

**N5007**

**S/N: 31T-7820061**

**Date: 10/19/2017**

Completed event 1 inspection at this time. Replaced the gyro central air filter P/N D9-18-1. Replaced garter filter 2 ea. p/n: 10-01333. ELT check conducted I/A/W FAR 91.207 (d) (1-4). Found ELT INOP. Removed ELT. Installed new Artex ÉLT-345 syst  
 Replaced left and right hand nose gear door rodends with new p/n: 452-412 (2) and 452-439 (2) rodends. C/W AD 2009-13-06  
 visual inspection and lubrication, no defects noted. Part F1 next due Hobbs 2050.5, part F2 next due Hobbs 1150.5. C/W AD 21  
 24-07 via visual inspection, no defects noted. Next due October 2019. C/W AD 82-27-13 R2 via visual inspection, no defects no  
 Next due tach 1150.5. Inspection was done in accordance with Piper Progressive Inspection manual P/N 761-520.

This aircraft, airframe, aircraft engine, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service with respect to the work performed.



Dustin Ramsey A&P 3329376 IA




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# SEMO Aviation Services LLC

Poplar Bluff Municipal Airport, Poplar Bluff, MO 63901 (573) 714-6385

**Airframe**

**Piper PA31T**

**Hobbs: 1083.1**

**Total Time: 8214.4**

**N5007**

**S/N: 31T-7820061**

**Date: 6/15/2018**

Completed event 2 inspection at this time. Replaced the gyro central air filter P/N D9-18-1. Replaced garter filter 2 ea. p/n: 10-01333. ELT check conducted I/A/W FAR 91.207 (d) (1-4). ELT battery due October 2019. Installed new right-hand nacelle fuel probe p/n: 550-576 s/n: 2156. Installed new o-rings in master cylinder and serviced all brakes. Installed new heater fuel pump p/n: 3017A. Installed all new deice boots p/n: SMR5026-01 left wing, SMR5026-06 right wing, SMR5026-03 left stabilizer, SMR5026-04 right stabilizer, SMR5026-05 vertical fin. Replaced both BETA cable forward swivel joints with serviceable p/n: 3011210 joints. Removed trim motor and sent to ASI for repair, see work order 431781, reinstalled after repair. Installed new right-hand oil cooler door solenoid p/n: 487-154. C/W AD 2017-02-06 via visual inspection, no defects noted. Next due June 2019. C/W AD 2004-21-05, found heater leaking. Removed heater sent to Harold Haskins for overhaul. Reinstalled after overhaul. New combustion tube installed, repetitive inspections no longer required. Inspection was done in accordance with Piper Progressive Inspection manual p/n: 761-520.

This aircraft, airframe, aircraft engine, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service with respect to the work performed.



Dustin Ramsey A&P 3329376 IA

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DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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**SEMO Aviation Services LLC**

Poplar Bluff Municipal Airport, Poplar Bluff, MO 63901 (573) 714-6385

**Airframe**

**Piper PA31T**

**Hobbs: 1088.1**

**Total Time: 8219.4**

**N5007**

**S/N: 31T-7820061**

**Date: 9/10/2018**

Installed new R134A conversion kit p/n: 97360010-001 in accordance with STC SA09478SC. Change to weight and balance is negligible. Operational check completed, no defects noted. Form 337 completed, mailed, and placed in aircraft records.

This aircraft, airframe, aircraft engine, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service with respect to the work performed.

  
Dustin Ramsey A&P 33293761A

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**Description of Inspections, Tests, Repairs and Alterations**

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**SEMO Aviation Services LLC**

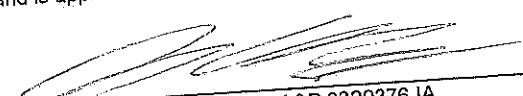
Poplar Bluff Municipal Airport, Poplar Bluff, MO 63901 (573) 714-6385

**Airframe  
Piper PA31T  
Hobbs: 1109.9  
Total Time: 8241.2**

**N5007  
S/N: 31T-7820061  
Date: 11/7/2018**

Installed new nose tire p/n: 18-4.4 6 ply tire. Installed new left main tire p/n: 6.50-10 8 ply tire and new 6.50-10 tube.  
Installed new AC belt p/n: 7M813. Installed new dimmer assembly p/n: 456-731. Operational check completed, no defects noted.

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Dustin Ramsey A&P 3329376 IA

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# SEMO Aviation Services LLC

Poplar Bluff Municipal Airport, Poplar Bluff, MO 63901 (573) 714-6385

**Airframe**

**Piper PA31T**

**Hobbs: 1083.1**

**Total Time: 8214.4**

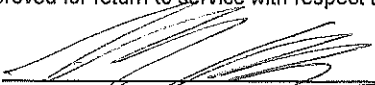
**N5007**

**S/N: 31T-7820061**

**Date: 6/15/2018**

Completed event 2 inspection at this time. Replaced the gyro central air filter P/N D9-18-1. Replaced garter filter 2 ea. p/n: 10-01333. ELT check conducted I/A/W FAR 91.207 (d) (1-4). ELT battery due October 2019. Installed new right-hand nacelle fuel probe p/n: 550-576 s/n: 2156. Installed new o-rings in master cylinder and serviced all brakes. Installed new heater fuel pump p/n: 3017A. Installed all new deice boots p/n: SMR5026-01 left wing, SMR5026-06 right wing, SMR5026-03 left stabilizer, SMR5026-04 right stabilizer, SMR5026-05 vertical fin. Replaced both BETA cable forward swivel joints with serviceable p/n: 3011210 joints. Removed trim motor and sent to ASI for repair, see work order 431781, reinstalled after repair. Installed new right-hand oil cooler door solenoid p/n: 487-154. C/W AD 2017-02-06 via visual inspection, no defects noted. Next due June 2019. C/W AD 2004-21-05, found heater leaking. Removed heater sent to Harold Haskins for overhaul. Reinstalled after overhaul. New combustion tube installed, repetitive inspections no longer required. Inspection was done in accordance with Piper Progressive Inspection manual p/n: 761-520.

This aircraft, airframe, aircraft engine, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service with respect to the work performed.

  
Dustin Ramsey A&P 3329376 IA

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**SEMO Aviation Services LLC**

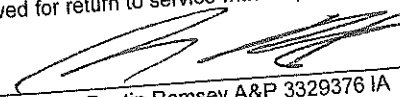
Poplar Bluff Municipal Airport, Poplar Bluff, MO 63901 (573) 714-6385

**Airframe**  
**Piper PA31T**  
**Hobbs: 1109.9**  
**Total Time: 8241.2**

**N5007**  
**S/N: 31T-7820061**  
**Date: 5/22/2019**

Completed events 1&2 inspections at this time. Replaced the gyro central air filter P/N D9-18-1. Replaced garter filter 2 ea. p/n: 10-01333. ELT check conducted I/A/W FAR 91.207 (d) (1-4). ELT battery due October 2019. Installed new trim motor assembly p/n: 4009506-8502 s/n: 1684. Installed new GMA345 intercom s/n: 3Z0007007. Installed new GTX345 transponder s/n: 3EG026793. Installed new landing light p/n: 4596 Installed new left auxiliary fuel cell p/n: 5720 s/n: CR661. Installed new right-hand nose wheel bearings p/n: 753-448 race and p/n: 763-287 cone. Installed new clevis pin on oil cooler flap door p/n: MS20392-2C11. Installed new placard on oil access panel. Replaced left- and right-hand main gear link assembly outboard bushings p/n: 453-777(4). C/W AD 2017-02-06 via visual inspection, no defects noted. Next due May 2020. C/W AD 2003-24-07 via inspection, no defects noted. Next due May 2020. Inspection was done in accordance with Piper Progressive Inspection manual p/n: 761-520.

This aircraft, airframe, aircraft engine, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service with respect to the work performed.

  
 Dustin Ramsey A&P 3329376 IA

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**SEMO Aviation Services LLC**  
 Poplar Bluff Municipal Airport, Poplar Bluff, MO 63901 (573) 714-6385

**N5007**  
**S/N: 31T-7820061**  
**Date: 2/5/2020**

**Airframe**  
**Piper PA31T**  
**Hobbs: 0.0**  
**Total Time: ~~43844.3~~**

*AKO*  
*ACTT 8329.3*

Installed new Hobbs meter p/n: 85094. Installed new Good Year FC III and 6.50-10 tube and right main. Replaced all brake linings p/n: 68-06800 (16) and rivets p/n: 177-01600 (16) on right side. Installed new solenoid p/n: 43988-002. Installed overhauled left cowl gear motor p/n: 475-194 s/n: 73610. Installed new left wing nav light cover p/n: W1284-R. Removed Garmin GNS530W p/n: 011-01064-00 s/n: 23823061. Installed serviceable Garmin GNS530W p/n: 011-01064-40 s/n: 78408533.

This aircraft, airframe, aircraft engine, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service with respect to the work performed.

*[Signature]*  
 Dustin Ramsey A&P 3329376 IA

<i>Next mistanly take from Rlt engine Jmossch ATP 2774928</i>				

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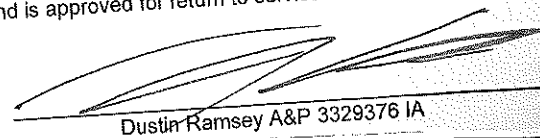
Poplar Bluff Municipal Airport, Poplar Bluff, MO 63901 (573) 714-6385

**Airframe**  
**Piper PA31T**  
**Hobbs: 17.8**  
**Total Time: ~~13859.1~~ *Alt 8347.1 also***

**N5007**  
**S/N: 31T-7820061**  
**Date: 7/6/2020**

Completed events 1&2 inspections at this time. ELT check conducted I/AW FAR 91.207 (d) (1-4). ELT battery due October 2020. Removed bottom GNS530 and sent to Garmin for upgrade to GNS530WAAS, reinstalled after upgrade. Installed new autopilot servo p/n: 4000225-8503 s/n: 5806. Installed new nose seal p/n: 187-519. C/W AD 2017-02-06 via visual inspection, no defects noted. Next due July 2021. C/W AD 2009-13-06R1 part 2i via inspection, no defects noted. Next due 117.8. C/W AD 2003-24-07 via inspection, no defects noted. Next due July 2021. Inspection was done in accordance with Piper Progressive Inspection manual p/n: 761-520.

This aircraft, airframe, aircraft engine, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service with respect to the work performed.

  
 Dustin Ramsey A&P 3329376 IA

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### Flight Controls Ohio LLC.

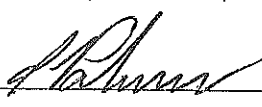
7705 National RD SW  
Etna, OH 43062  
LOGBOOK ENTRY

614-863-3208  
Isaac@flightcontrolsohio.com  
S/N 31T-7820061  
Piper PA-31T

ATT: ~~1381002~~ 8347-1 JLD

1. Rudder was removed from Aircraft N473GG
2. Prepped primed and painted Rudder PN 51094-000
3. Rudder balance is at +54 inlb Found rudder to be within allowable balance limits.

The above work was performed in accordance with 43.13 -1B, And Piper PA-31T maintenance manual. This repair is Airworthy and approved for return to service.

Isaac Palmer  A&P 27563511A

Date 8/25/2021

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DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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## SEMO Aviation Services LLC

Poplar Bluff Municipal Airport, Poplar Bluff, MO 63901 (573) 714-6385

**Airframe**

**Piper PA31T**

**Hobbs: 18.0**

**Total Time: ~~13859.3~~ 8347.3 JLD**

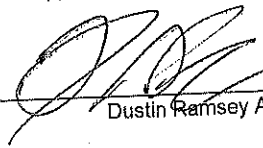
**N5007**

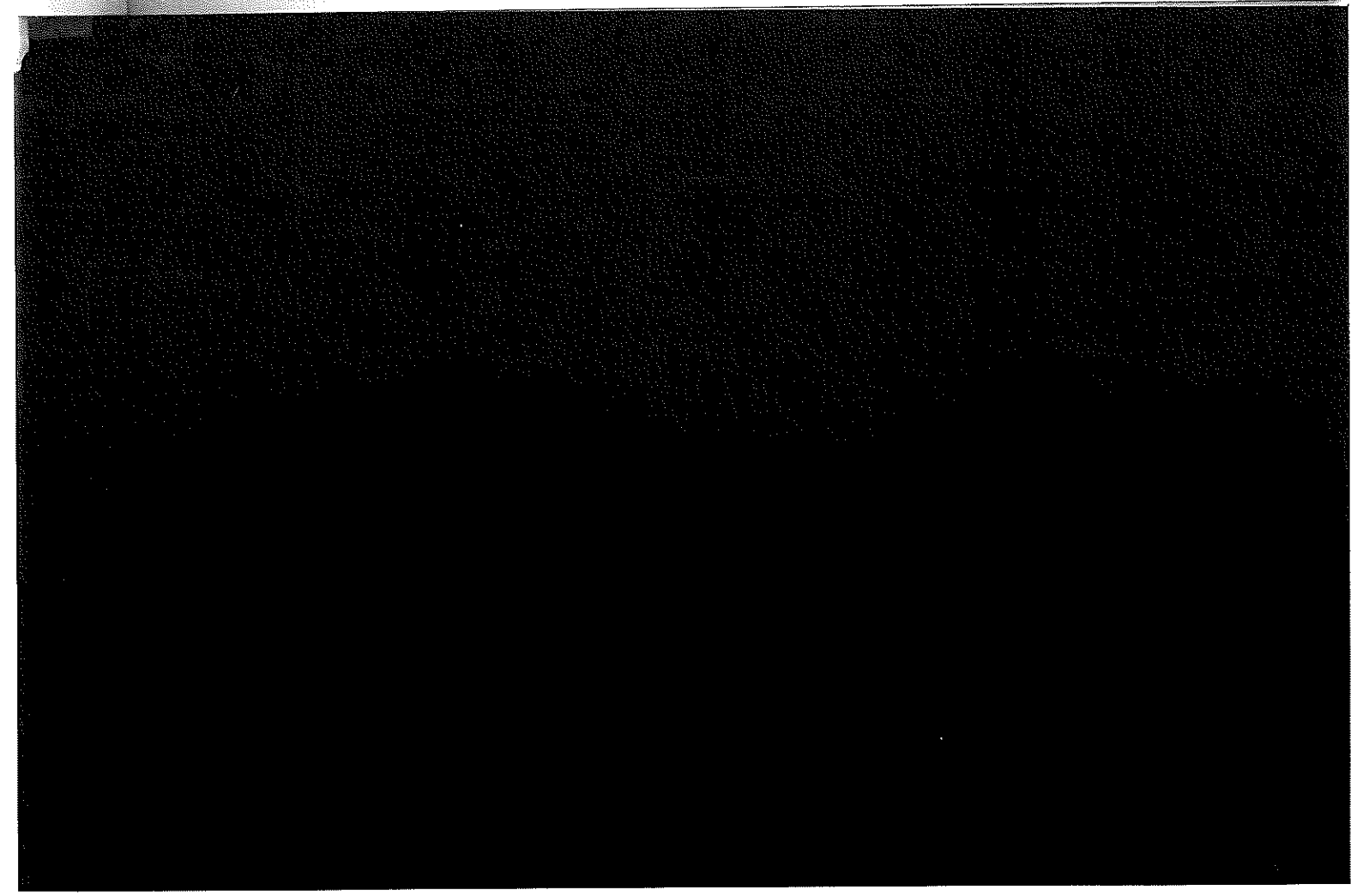
**S/N: 31T-7820061**

**Date: 8/1/2021**

Completed events 1&2 inspections at this time. ELT check conducted I/A/W FAR 91.207 (d) (1-4). ELT battery due October 2021. C/W AD 2017-02-06 via visual inspection, no defects noted. Next due August 2022. C/W AD 2009-13-06R1 part 2i via inspection, no defects noted. Next due 118.0. C/W AD 82-27-13R2 via visual inspection, no defects noted. Next due 118.0. C/W AD 2003-24-07 via inspection, no defects noted. Next due August 2022. Inspection was done in accordance with Piper Progressive Inspection manual p/n: 761-520.

This aircraft, airframe, aircraft engine, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service with respect to the work performed.

  
Dustin Ramsey A&P 3329376 IA

DATE	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE
19 _____			

**Description of Inspections, Tests, Repairs and Alterations**  
 Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

**SEMO Aviation Services LLC**

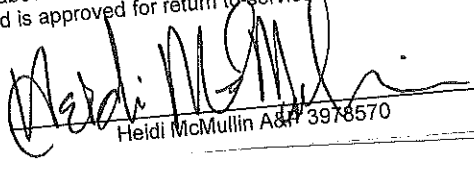
Poplar Bluff Municipal Airport, Poplar Bluff, MO 63901 (573) 714-6385

Airframe  
 Piper PA31T  
 Hobbs: 18.9  
 Total Time: ~~43860.2~~ 8348.2 LW

N5007  
 S/N: 31T-7820061  
 Date: 10/5/2021

Removed rudder on 8/16/2021. Installed and rigged serviceable rudder p/n: 51094-000 on 10/5/2021. See entry from Flight Controls Ohio for more information.

This aircraft, airframe, aircraft engine, or appliance identified above was repaired and inspected in accordance with current Regulations of the Federal Aviation Administration and is approved for return to service with respect to the work performed.

  
 Heidi McMullin A&P 3978570

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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*Dispatch Aviation LLC*  
 9548 Veterans Memorial Blvd. Hangar 29  
 Baton Rouge, LA 70807

**N5007 Airframe Log Entry 09/02/2022 Page 1 of 2**  
**Piper PA31T serial #31T-7820061 Hour meter: 65.6 T.T.: 8394.9**

Complied with Event #1 and #2 in accordance with the Piper form and current FAR's.  
 See following actions taken to renew airworthiness certificate.

- 1) Complied with FAR 91.207(d) regarding ELT, battery expires December 2024.
- 2) Complied with AD 82-27-13 R2 regarding flap transmission wear and found within limits.
- 3) Complied with AD 2003-24-07 regarding rudder torque tube corrosion.
- 4) Complied with AD 2009-13-06 R1 100 Hour Inspection and Lubrication.
- 5) Complied with AD 2017-02-06 regarding wire chafing at main power panel in floor.
- 6) Replace roll pin in co-pilot's seat regarding fore/aft adjustment.
- 7) Complied with aircraft battery capacitance test and charging per mfr's instructions.
- 8) Brake calipers disassembled, cleaned, inspected and assembled with new seals.

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of  
ies.)

DATE 19__	RECORDING TACH TIME	TODAYS FLIGHT	TOTAL TIME IN SERVICE	<b>Description of Inspections, Tests, Repairs and Alterations</b> Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)

N5007 Airframe Log Entry 09/02/2022 Page 2 of 2  
Piper PA31T serial #31T-7820061 Hour meter: 65.6 T.T.: 8394.9

- 9) Replace all brake linings with new along with new pins as required. Bleed brakes and service reservoir to full level.
  - 10) Remove pressurization controller #1111-00-3 carrying serial #0003 and shipped for inspection, testing and repair as required.
  - 11) Aircraft lubrication provided per mfr's instructions.
- See engine and propeller logs for further details of this inspection.

I CERTIFY THIS AIRCRAFT HAS BEEN INSPECTED IN ACCORDANCE WITH  
EVENT 1 & 2 INSPECTIONS AND IS APPROVED FOR A RETURN TO  
SERVICE. DETAILS ON FILE THIS FACILITY UNDER WO #1270.  
DATE 9/2/22 Authorized Signature   
Larry R. Woodson / A&P 3420756 IA

<END>




Holder Aviation, Inc.  
420 Airport Road  
Pell City, AL 35128  
CRS# 9HLR596B

Reg. No.: N5007  
Model: PA-31T  
W. O. No.: 22-0098

Tach/Hobbs:  
Serial No.: 31T-7820061

Removed A. I. M. Directional Gyro P/N 200DC (28) S/N 3372, Aeronetix Course Deviation Indicator P/N 520530000 S/N 1118, Aerosonic Vertical Speed P/N 360-360-00-1210 S/N W10548, Antenna Dev. Co. Nav Splitter P/N N/A S/N N/A, Astrotech LC-2 Clock P/N AT420100 S/N 43353, Bendix Right Fuel Flow P/N 3265013-0601 S/N 906614, Bendix Left Fuel Flow P/N 326513-0601 S/N 76, Bendix Right Indicator Tach P/N 3571261-3101 S/N 8101157, Bendix Left Indicator Tach P/N 3571261-3101 S/N 7705123, Bendix Right Prop Tach P/N 30P1001 S/N C8048, Bendix Left Prop Tach P/N 30P1001 S/N A3487, Bendix Right Torque Indicator P/N 3571214-6004 S/N 7712104, Bendix Left Torque Indicator P/N 3571214-6004 S/N 7705102, Bendix Right Fuel Pressure P/N 55569-2 S/N N/A, Bendix Left Fuel Pressure P/N 55569-2 S/N N/A, Bendix Right Oil Temp P/N 163B137 S/N 249, Bendix Left Oil Temp P/N 163B137 S/N 264, Bendix Right Oil Pressure P/N 66745-01 S/N C60193, Bendix Left Oil Pressure P/N 66745-011 S/N C601941, Bendix Flight Director Indicator P/N 4000843-6602 S/N 1245, Bendix Auto Pilot Controller P/N 4000493-8501 S/N 1549, Bendix Altitude Controller P/N 4000225-8503 S/N 5606, Bendix Pitch Servo P/N 4009506-8502 S/N 1420, Bendix Roll Servo P/N 4009506-8502 S/N 1545, Bendix Yaw Servo P/N 4009506-8502 S/N 1816, Bendix Trim servo P/N 4000524-8511 S/N 1016, Bendix 5536F Flight Computer P/N 4000495-8501 S/N 1838, Bendix Trim Adapter P/N 4000589-5401 S/N 1607, Bendix Fuel Totalizer P/N 3265001-0301 S/N 810278, Bendix Slip-skid Sensor P/N 4000780-8501 S/N R5209, Bendix KA 32 Antenna P/N 071-1021-00 S/N 14166, Bendix Radar Indicator P/N 4000964-0201 S/N 1196, Bendix RT-131A P/N 4000763-3101 S/N 3654, Bendix Radar P/N 4000504-0301 S/N 3582, Bendix RT Torque Transmitter P/N 3567749-6001 S/N 523, Bendix LT Torque Transmitter P/N 3567749-6001 S/N 7909118, Flite-Tronics Co. Static Inverter P/N PC-15BC S/N 8309, Flite-Tronics Co. Static Inverter P/N PC-15BC S/N 10384, Garmin GNS 530W P/N 011-01064-00 S/N 23823061, Garmin GAD 42 P/N 011-00417-00 S/N 99601776, Garmin GA 35 P/N 013-00235-00 S/N 86185, General Design Rate Gyro P/N 4000784-8503 S/N 3530, Honeywell LT Oil Pressure Switch P/N 587-961 S/N N/A, Honeywell RT Oil Pressure Switch P/N 587-961 S/N N/A, King KPI 553 Nav Indicator P/N 066-3027-19 S/N 4398, King KNI 581 Magnetic Indicator P/N 066-3042-01 S/N 2861, King KNI 415 Radar Altimeter P/N 066-3031-01 S/N 1535, King Nav Indicator P/N 066-3011-01 S/N 11904, King MRK Beacon RCVR P/N 066-1044-00 S/N 2066, King KDA 335 Display Adapter P/N 066-1046-00 S/N 1408, King KAA 455 Audio Control System P/N 071-2007-00 S/N 1801, King DME Type KDM 705A P/N 066-1037-08 S/N 4109, King KA-35A Marker Light P/N 066-3012-01 S/N 3397, King KA-35A Marker Light P/N 066-3012-01 S/N 3374, Lewis Engrg Co. Right I.T.T Guage P/N 152C42 S/N 378, Lewis Engrg Co. Left I.T.T Guage P/N 152C42 S/N 376, Piper Nose J-Box #1 P/N N/A S/N N/A, Piper Nose J-Box #2 P/N N/A S/N N/A, Piper Hailing Speaker P/N 454348 S/N N/A, Piper RT Fuel pressure SNSR P/N 55819-2 S/N C001931, Piper Lt Fuel pressure SNSR P/N 55819-2 S/N C001930, Piper RT Oil pressure SNSR P/N 55818-2 S/N C002069, Piper LT Oil pressure SNSR P/N 55818-2 S/N C002063, Piper RT Fuel Pressure Transducer P/N 33093-1 S/N C001930, Piper RT Oil Pressure Transducer P/N 33092-1 S/N C002069, Piper LT Fuel Pressure Transducer P/N 33093-1 S/N C001931, Piper LT Oil pressure Transducer P/N 33092-1 S/N C002063, Piper Volt Guage P/N 51051 S/N N/A, Piper AMP Guage P/N 50151 S/N N/A, Piper AMP Guage P/N 51051 S/N N/A, Ragen RT Fuel Flow P/N 3268011-0101 S/N 964, Ragen LT Fuel Flow P/N 3268011-0101 S/N 1063, RC Allen OAT P/N 29-3003 S/N 93J2277, RC Allen Attitude Indicator P/N 102-0057-02 S/N 3996, Sandin Aerospace Avionics Fan P/N ACF100 S/N 12172, Smiths Servo Altimeter P/N WL1402AM/MS/I S/N AE306, Smiths Ind Altitude Preselect P/N WL506CUF/MS/I S/N 1544, Sperry Flux Valve P/N 2594484 S/N 77106598,

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1891 ASA

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19 DA Sperry DRC-1 Dual Remote Compensator P/N 2593379-001 S/N 77112844, Sperry Flight System C-14A Compass P/N 2587193-43 S/N 6116736, P/N AW2829AE02 S/N 287, United Gyro P/N 4001808-901 S/N 5106095, U.S. Gauge Airspeed P/N AW2829AE02 S/N 283, U.S. Gauge Airspeed P/N 5934PA-3 S/N 400215, Wakman Watch Co. Clock P/N 33-7510-10ET S/N 3368.

Installed Applied Avionics AP Ice Speed Switch P/N LED-50-17-HA1-E32D2 S/N N/A, Applied Avionics AP Master Switch P/N LED-52-14-KA2-E2293 S/N N/A, Applied Avionics Half Bank Switch P/N LED-GM-11-SA1-E2WK9 S/N N/A, Applied Avionics Trim Master Switch P/N LED-52-14-KA2-E2294 S/N N/A, Comant Antenna P/N CI 102 S/N 702531, Garmin GA 37 P/N 013-00245-00 S/N 24123, Garmin GAD 43E P/N 011-02349-00 S/N 1V7001385, Garmin GDL 69A SXM P/N 011-03177-15 S/N 5P0001729, Garmin GDU 1060 LT P/N 011-03308-60 S/N 3M4004974, Garmin GDU 1060 RT P/N 011-03308-60 S/N 3M4005110, Garmin GDU 700/1060 ADC LT P/N 011-03457-50 S/N 5BF001716, Garmin GDU 700/1060 ADC RT P/N 011-03457-50 S/N 5BF001675, Garmin GDU 700P P/N 011-03306-60 S/N 3L9001802, Garmin GEA 71B LT P/N 011-03682-05 S/N 5SB001269, Garmin GEA 71B RT P/N 011-04201-00 S/N 4WT005458, Garmin GMU 44B RT P/N 011-04201-00 S/N 011-04489-30 S/N 5MZ110072, Garmin GMU 44B LT P/N 011-04937-00 S/N 63M065513, Garmin GSB 15 (CO-Pilot) P/N 011-04937-00 S/N 63M065515, Garmin GSB 15 (Pilot Pax) P/N 011-04937-00 S/N 63M065536, Garmin GSB 15 (Pilot) P/N 011-04937-00 S/N 63M065423, Garmin GTN 750Xi P/N 011-04634-00 S/N 5FR005985, Garmin GTP 59 (AFT STBY ADI) P/N 011-00978-00 S/N 47969136, Garmin GTP 59 (Front PFD 1) P/N 011-00978-00 S/N 47969124, Garmin GTP 59 (Middle PFD 2) P/N 011-00978-00 S/N 47969127, GPS Networking Power Splitter P/N LDCBS1X2-B S/N 108062, Honeywell Oil Pressure Switch LT P/N 587-961 S/N N/A, Honeywell Oil Pressure Switch RT P/N 587-961 S/N N/A, Kulite Oil Pressure SNSR LT P/N 494-30032-00 S/N 8265-7-130, Kulite Oil Pressure SNSR RT P/N 494-30032-00 S/N 8389-1-531, Kulite Oil Pressure SNSR LT P/N 494-30032-00 S/N 8265-7-130, Kulite Torque Pressure SNSR RT P/N APTE-2B-2250-85D S/N 8817-4-404, Nulite Torque Pressure SNSR LT P/N APTE-2B-2250-85D S/N 8817-4-409, Kulite Torque Pressure Transducer RT P/N APTE-2B-2250-85D S/N 8817-4-404, Nulite Light Ring P/N LW3028 S/N N/A, Nulite Light Ring P/N LW2028 S/N N/A, Shadin Transducer FF LT P/N 660526AR S/N 6939, Shadin Transducer FF RT P/N 660526AR S/N 6940, S-Tec DFCS-3G Dual CPU W/Yaw P/N 01326-05-02-000 S/N 01326-2206-00004, S-Tec Pitch Servo P/N 0108-9 S/N 00108-2206-00002BCDEFHJK, S-Tec Roll Servo P/N 0106-15-R9 S/N 00106-2206-00006BCEFHJ, S-Tec Trim Servo P/N 0106-T3 S/N 00106-2206-00005CEFGJ, S-Tec Yaw Servo P/N 0106-15-Y12 S/N 00106-2206-00007BCEFHJ.

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36,  
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 ED-52-  
 P/N

Garmin  
 LT P/N  
 S/N  
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DATE

TOTAL  
 TIME IN  
 SERVICE

Equipment Addition, Removal or Exchange

19

Item Manufacturer's Name Model

CONTINUED FROM PAGE 2

The G1275 installation was accomplished IAW Garmin STC SA02658SE, STC Installation Manual No. 190-02246-10 Rev. 14.  
 The G600TXi installation was accomplished IAW Garmin STC SA02571SE, STC Installation Manual No. 190-01717-B3 Rev. 20.  
 The ST 3100 installation was accomplished I A W Genesys Aerosystems STC SA09759DS.  
 The GTN 750Xi installation was accomplished I A W Garmin Part 23 AML STC SA02019SE-D and GTN Xi Series Installation Manual No. 190-01007-C0 Rev. 7. The antenna installation was accomplished I A W DER Approved data from Strong Aero Engineering DER-T 339901955.  
 A new instrument panel was fabricated using 2024 T3 Alclad Sheet 0.125 thickness. The new panel was the same thickness as the old panel. The same mounting holes were re-used. No structural alterations were required. The panel was fabricated with guidance from AC 43.13-2B Chapter 2 Par 202, 203. The panel work was evaluated and determined to be a minor alteration, as it is not a structural component of the aircraft.  
 An electrical load analysis was accomplished and determined to be satisfactory.  
 The pitot and static systems required reconfiguration to accommodate the new instrument arrangement. Silicone hose meeting SAE J20 R3, TMC RP303B Grade I and Grade II, Mil Spec A-A-52426 was used for the reconfiguration.  
 Removed defective RT Ice Door motor P/N 475-194 and installed repaired replacement P/N 475-194 S/N 311M. Removed defective RT Ice Door Motor brake solenoid P/N 43988-003 and installed used replacement P/N 43988-003.  
 Removed defective LT Ice Door motor P/N 475-194 S/N 73610 and installed repaired replacement P/N 475-194 S/N 345M.  
 Performed Altimeter check, static system integrity check, and encoder correlation check I A W 14CFR43 Appendix E to comply with 14CFR 91.411. Certified to 30,000 feet max altitude. Performed Transponder test I A W 14CFR43 Appendix F to comply with 14CFR 91.413. No defects noted.  
 The aircraft or appliance (s) identified above was maintained and inspected in accordance with current F.A.A. Regulations and was found to be airworthy for return to service with respect to the work performed. Pertinent details of the work are on file at this agency under the above referenced work order number.

for Optional  
 for Optional

for Optional  
 for Optional

for Optional  
 for Optional


for Optional  
 for Optional

for Optional  
 for Optional

for Optional  
 for Optional

for Optional  
 for Optional

Date: 2/7/2023

Signature: 

- Addition of Optional Equipment
- Removal of Optional Equipment
- Addition of Required—Exchanged for Optional
- Removal of Required—Exchanged for Optional