

Book #2
Start Date
11/2016



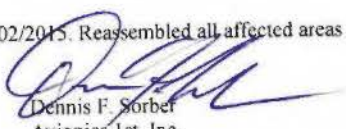
AIRFRAME MAINTENANCE RECORDS

Registration No. N21870

Serial No. 28R-7837309

DATE	TOTAL TIME IN	TOTAL TIME SINCE	TACH OR RECORDING METER	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON RECEIVING WORK
 Dallas Executive Aircraft Service shavermchad@gmail.com 214-558-1238 N21870 S/N: 28R-7837309 AFTT: 8243.6 Date: 11/8/16 Airframe Log Hobbs: 162.3 TACH: 2421.6 Maintenance Actions Performed: 1. Installed previously removed engine after overhaul from Custom Airmotive. WO # 25096 2. Sent prop governor to vendor for inspection P/N F-2-7A, S/N 7239H. Installed serviced prop governor P/N F-2-7A, S/N 7239H to engine using new gasket and set control cable. 3. Removed and replaced all engine flammable hoses with new, leak checks good. 4. Made various repairs to engine baffling, fabricated (4) doublers, treated and secured using new rivets. Fabricated (2) sections of baffling and installed new baffle seal P/N JM106A all the way around and secured with rivets. 5. Removed and replaced oil cooler with new P/N 7000661, S/N 8131233. Chad Shaver A&P 2857120 Page 1 of 1				

 Dallas Executive Aircraft Service shavermchad@gmail.com 214-558-1238 N21870 S/N: 28R-7837309 TACH: 2421.6 Date: 11/8/16 Airframe Log I certify this aircraft has been inspected and has been found safe for the intended flight in accordance with Special Flight Permit dated 11/8/16. Chad Shaver A&P 2857120				
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N21870	Airframe Log	01-04-2017
PA-28R-201		WO# 161222-1
S/N 28R-7837309		Tach: 2422.3
Installed E-04 ELT S/N 017C83 in accordance with Install manual P/N E04M Rev 1.8 Dated 12/02/2015. Reassembled all affected areas and ops check good. Completed all appropriate aircraft logs and record entries.		
 Dennis F. Sorber Avionics 1st, Inc. CRS # 8A1R718B		

SUB-TOTALS this page

TOTALS—Carry forward to next page



Dallas Executive Aircraft Service

shavermchad@gmail.com

214-558-1238

N21870

S/N: 28R-7837309

AFTT: 8243.6

Date: 2/9/17

Airframe Log

Hobbs: 162.8

TACH: 2422.5

Time Items Complied with:

1. Performed inspection using 100 hour inspection check list.
2. Inspected ELT P/N E-04, S/N 017C83 in accordance with ELT Manufacturer's instructions applicable FAA Guidance and found that it meets the requirements of Section 91.207 (c&d)..

ADs/Service Bulletins Accomplished:

1. AD 2016-07-21 is not applicable per serial number of aircraft.

Maintenance Actions Performed:

1. Removed and replaced engine air filter with new P/N BA10.
2. Removed mixture cable, cleaned and lubricated. Installed cable and secured, operational checks good.
3. Removed nose wheel and strut, disassembled and cleaned. Assembled nose strut using new o-rings P/N MS28775-327, MS28775-210, MS28775-224, and wiper P/N 187-630. Serviced with hydraulic fluid and nitrogen. Installed nose strut and wheel, operational checks good.
4. Removed, disassembled and cleaned right strut. Assembled using new o-rings P/N MS28775-327, MS28775-224, M83461/1-227 and AN901-5A. Installed strut and serviced with 5606 and nitrogen. Installed wheel, removed and replaced 2 adel clamps with new P/N MS21919WDG9 and MS21919WDG6 operational checks good.
5. Removed, disassembled and cleaned left strut. Assembled using new o-rings P/N 484-790, P/N 187-630, AN6230-5 and MS28775-210, new washer P/N 80122-89 and compression ring P/N 484-828. Installed strut and serviced with 5606 and nitrogen, operational checks good.
6. Disconnected battery terminals from relay, cleaned mounts, terminals and hardware. Treated with corrosion inhibitor. Attached terminals to relays and replaced battery box bolts with new P/N AN4-3A.
7. Inspected elevator control wheel, cleaned and lubricated, operational checks good
8. Secured aileron trim knob.
9. Removed flap handle overlay, removed bolt for flap handle and installed new pivot bushing P/N 62740-000. Installed handle and tightened bolt. Found rubber wing to fuselage trim rubbing on outside flap bellcrank, reason flaps would not stow properly. Trimmed seal and checked operation of flap system, operational checks good.
10. Tensioned aileron cables to 40 + 5 lbs per maintenance manual instructions. Safetied using new lock pins P/N MS21256-1, operational checks good.
11. Removed both left and right control universal joints, match drilled holes on both new u-joints P/N CA62824-802. Installed new taper pins P/N AN386-1-6A and bolts P/N 66546-000, 63900-120 and lubricated, operational checks good.
12. Removed and replaced both toe brake spacers with new P/N 63478-00 at pilot's rudder pedals. Removed and replaced brake pedal bearings with new P/N 453-714 and pins with new P/N MS20392-2C13, operational checks good.
13. Tightened pilot's brake master cylinders at upper attach points on firewall.
14. Adjusted rod end for right gear door and performed gear retraction, operational checks good.
15. Removed and replaced left and right brake pads with new P/N RA066-10500 and brake rotors with new P/N RA164-02000. Installed wheels to aircraft, torqued and safetied, operational checks good.
16. Removed and replaced pneumatic filter with new P/N RAB3-5-1 and RAD9-18-1.
17. Removed and replaced air diverter shield on firewall with fabricated.
18. Removed and replaced left aileron control rod end with new P/N 452-335 and lubricated, operational checks good.
19. Removed right main gear down lock assemblies and installed using new bolts and bushings, operational checks good.
20. Removed left and right main gear torque links. Cleaned and removed old bushings and bolts. Installed all new bushings in links on gear using new bolts and hardware and safetied. Operational checks good.
21. Loosened oil cooler, contoured damaged area on engine mount, primed and painted. Contoured fin on oil cooler to prevent further contact and installed oil cooler.
22. Installed new gasket P/N 63684-004 to intake flange to servo and safetied.
23. Installed new clamps to several vent line scat tubing.
24. Replaced several adel clamps on engine with new
25. Removed elevator trim actuator drum. Removed and replaced upper and lower bushings with new P/N 452-413. Installed drum using new bushing P/N 452-418, rigged trim and lubricated. Still loose. Removed and replaced cable drum with new P/N 63530-100. Installed cables and set cable tensions and safetied. Operational checks good, within limits.
26. Cleaned corrosion on battery box.
27. Removed and replaced bushings in nose gear upper mount with new P/N 452-800 and bolts with new P/N AN7-32 and safetied. Operational checks good on gear retraction.
28. Removed all bushings in nose gear down lock assembly, cleaned and assembled using new bolts and bushings. Installed on gear and safetied, operational checks good during gear retraction.
29. Removed, disassembled and cleaned nose gear torque links and shimmy dampener aft mount. Installed using new bolts P/N NAS6604-15, NAS6604-D46 and new bushings P/N 452-366, torqued and safetied bolts. Operational checks good on gear retraction.
29. Removed cabin door, interior door panels and door seal, cleaned area and installed new door seal P/N 688-431. Installed previously removed components and secured door using new cotter pins.
30. Applied anti chafe tape to spinner centering bowl.
31. Removed and replaced battery box cover with new P/N H35201-00.
32. Removed interior trim around visors, tightened visor mount nuts and installed trim pieces.
33. Removed and replaced left and right torque plates with new P/N 075-01600.
34. Disassembled nose strut, sent barrel for repair. Installed repaired barrel P/N 67054-803, S/N 17004.
35. Relocated secondary oil pressure transducer from front of case to same location of original factory sensor by adding four way fitting P/N AN918-1 and new fuel line hose P/N 111F504-450072. Routed wires and secured using clamp, leak and operational checks good.
36. Removed and replaced taxi/landing bulb with new P/N 4509, operational checks good.
37. Replaced #4 defective egt probe with new P/N 287. Operational checks good.

I certify that this aircraft has been inspected in accordance with an annual inspection and was determined to be in airworthy condition.

Mark Curless A&P 424828181 IA

Date

Aircraft Make/ Model

N-# / Serial #

Hobbs

June 23rd, 2017

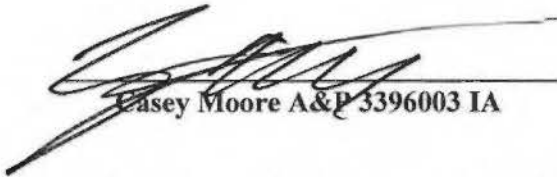
Piper PA-28R-201

N21870 / 28R-7837309

166.2

DATE

Installed STC #: SA01224AT wheel hub caps, and STC SA1216GL wing root seals. Work performed IAW STC drawings and instructions. See Form 337 and STC paperwork for details. Aircraft is returned to service for work performed at this time. STC and 337's added to MX records


Casey Moore A&P 3396003 IA

New Weight and Balance Information

June 23rd, 2017Registration: **N21870**Aircraft Type: **Piper Arrow III PA-28R-201**S/N: **28R-7837309**

	Weight	Arm	Moment
Right Main	665lbs	109.7	72950.5
Left Main	646lbs	109.7	70866.2
Nose	443lbs	15.6	6910.8

Aircraft empty weight: **1754 lbs.**New C.G. **85.93"** AFT of DatumNew Moment **150727.5**New Useful Load **996 lbs.**

Mechanic: Adam James A&P 3711763

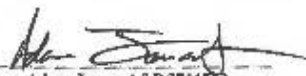


Date	Aircraft Make/ Model	N# / Serial #	Hobbs / Tach
June 23 rd , 2017	Piper PA-28R-201	N21870 / 28R-7837309	166.2 / 2425.2

- Chemically removed paint from aircraft, acid washed and removed corrosion, alkalinized aircraft then primed and painted aircraft. Flight control balance change negligible. Paint and materials used are under order number 1028291 and 1030657 from Blend Supply in Fort Worth Texas. Applied new registration markings supplied by the owner. Markings comply with applicable sections of FAR 45 subpart C and have been affixed to the aircraft in a means that is similar to the permanence of paint.
- Aircraft stabilator trim control cable was rigged incorrectly. Replaced damaged stabilator trim control cable* aft* (p/n: 62701-216). Rigged control cable L.A.W. Piper PA-28R-201 maintenance manual section 27-30-00 and set cable tension to 10 lbs. L.A.W. piper auto trim maintenance manual.
- Corrected wiring on stabilator trim servo. Switch for auto trim is beyond repair and a new switch must be installed. System has been labeled INOP.
- Installed plastic vent covers located on left fwd. side panel at pilot's feet, on right fwd. sidewall at co-pilot's feet, and defrost cover on glare shield. All 3 covers were supplied by the owner
- Installed new wing tie down hooks on both wings (p/n: AMTI-P380SS PMA-FAA)
- Removed both yokes, painted, and reinstalled.
- Replaced all exterior hardware screws with Piper PA-28R exterior screw kit supplied by owner.
- Replaced all screws around fuel cells on both wings with new stainless-steel screws (p/n: MS27039C0809 and p/n: MS27039C0811).
- Replaced cracked sheet metal in fuselage L.A.W. applicable sections of AC 43.13, used original material and existing rivet seams.
- Replaced right fuel cell vent tube (p/n: 9983800-0000).
- Replaced right wing bolt cover (p/n: 63942-01).
- Replaced all the windows in the aircraft *Except the windshield* and sealed with Chemical H2. Part numbers are as follows, left rear side window- SC-W/G-2108-250-LH, right rear side window- SC-W/G-2108-250-RH, right center side window- SC-W/G-2110-250-RH, door window with assembled vent- SC-W/G-2273-250, pilot window with assembled vent- SC-W/G-2276-250, left side center window- SC-W/G-2110-250-LH. Windows are all PMA-FAA approved parts- PQ2056CF, supplied by the owner and purchased from Great Lakes Aero Products and tags with further information has been attached to the aircraft records.
- Replaced plastic cover located between aft upper fuselage and lower vertical stabilizer. Part supplied by owner.
- Replaced both left and right aileron bolt crank mounting bolt access buttons (p/n: 453-802).
- Replaced flap bushings with new (p/n: 63900-019 and 63900-020), and all flap mounting hardware.
- Replaced cargo door seal (p/n: F303) and entrance door seal (p/n: F301-2) with new seals supplied by the owner.
- Repainted right wing, wing walk area, with Randolph wing walk Compound.
- Replaced all exterior Placards.
- Weighted aircraft L.A.W. maintenance manual P.O.H. and updated the aircraft weight and balance information as follows.
Empty weight- 1754 lbs.
New C.G.- 85.93
New Moment- 150727.5
New Useful Load- 996 lbs.
Copies of the detailed weight and balance has been attached to the maintenance records and added to the P.O.H

All available maintenance logs, 8130-3, invoices have been attached to the maintenance records

ALL WORK WAS PERFORMED L.A.W. APPLICABLE SECTIONS OF FAA FAR, AC 43.13 1B2B, AND PIPER PA-28-201 MAINTENANCE MANUAL OPERATIONAL CHECKS AND LEAK CHECKS FOR ALL THE WORK PERFORMED WAS FOUND WITHIN TOLERANCES/ SATISFACTORY AND THE AIRCRAFT IS RETURNED TO SERVICE AT THIS TIME FOR ALL THE WORK PERFORMED


Adam James A&P 3711763

TOTAL TIME	TOTAL TIME	TACH OR RECORDING	DESCRIPTION OF WORK PERFORMED
Date	Aircraft Make/ Model	N-# / Serial #	Hobbs / Tach
July 5 th , 2017	Piper / PA-28R-201	N21870 / 28R-7837309	169.5 / 2430.1

Removed nose wheel. Replaced tube with new Goodyear 5.00-5 and tire with a Goodyear flight custom 3, 5.00-5 6 ply (p/n: 505C66-5). Serviced tire to correct psi, and installed wheel. Work performed IAW piper maintenance manual.

Adam James A&P 3711763

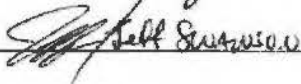
07/26/17	PA-28-201	N21870	TACH 2449.5 hrs
			Replaced with New Gil G35 Battery (GØ2928519)
			* see Engine log *
			#3033592

Date	Aircraft Make	Aircraft/Model
30 October 2017	Piper	PA-28R-201
Aircraft Serial Number	Aircraft Registration	Tach Time
28R-7837309	N21870	2476.4

Removed right, left, and nose gear actuators and removed old seals. Installed news seals and reinstalled actuators. Serviced landing gear with Fluid and ground tested. All tests good. All work accomplished in accordance with current maintenance manuals.

Christopher McSpadden, IA3313982



DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
11-3-17	8297.5	53.9	2476.4	magnetic compass replaced new 12-v P/N: AP C2200L4. compass calibrated per FARs and light connected and op checks good. (2 1/4" Replacement Cartridge) - Airpath Inst. Co. Meets FAA TSO-C7c requirements.  Jeff Swanson #3033592

Date	Aircraft Make	Aircraft Model
4 January 2017	Piper	PA-28R-201
Aircraft Serial Number	Aircraft Registration	Hobbs / Tach
28R-7827309	N21870	228.9 / 2486.5

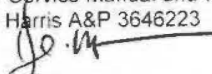
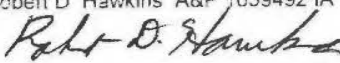
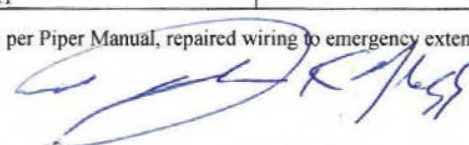
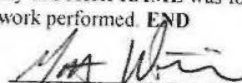
Removed aircraft hydraulic power pack and sent to Aerospace Turbine Rotables Inc. for overhaul, received back unit under FAA form 8130-3 form #320015. Installed in accordance with current maintenance manual and serviced fluids. Tested gear on jacks, all tests good. Removed right wing fuel drain and installed new Curtis Drain P/N CCA-1550.


Christopher McSpadden, IA3313982



SUB-TOTALS this page

TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK																
Red River Aircraft Repair, LLC 15985 US Hwy 283, Hangar 32 Altus, OK 73521																				
Date: 3/23/2018; Aircraft: N21870; Type: PA-28R-201; S/N: 28R-7837309; Hobbs: 238.3; Tach: 2495.2; Total Time: 8316.3; Engine - Type: Lycoming IO-360-C1C6, S/N: RL-10589-51A, Time: 5625.7, Last MOH: 5550.0-8/02/2016, SMOH: 75.7, Prop - Type: McCauley B2D34C213-B, S/N: 000913, Time: 1690.5, Last Prop MOH: 1617.8-5/09/2016, SMOH: 72.7; Work Done At - Airframe Time: 8316.3, Engine Time: 5625.7, Shop Order #: 18-1930 Lubed aircraft as required. Removed, serviced and reinstalled shimmy damper. Inspected brake pads and linings, no defects noted. Back bleed brakes and serviced reservoir. Inspected wheel bearings, showed signs of corrosion. Removed and replaced all wheel bearings. Rigged Ailerons per Piper Service Manual, trimmed wing tips not allowing full travel of ailerons. Set up travel at 24 degrees and down travel at 14 degrees cable tensions at 37. Other control cable tension checked. All cables within tolerance. C/W ELT INSPECTION IAW 91.207(d), BATTERY DUE: OCT 2021. Exhaust system was removed, inspected, and reinstalled. Aft Exhaust muffler inspected, found defect in baffles. Removed and replaced muffler with AWI P/N A67517-00 S/N 63670. Exhaust system pressurized and shrouds inspected. No defects or leaks noted. Performed normal/emergency gear retraction, ops check good. Gascolator removed & inspected and reinstalled. Removed and replaced LH OB Fuel sending unit gasket, ops and leak checked. Cleaned LH MLG actuator elbow prevent from leaking. AD 2017-14-04 Hoses replaced at Tach 2421.6 and Inspected per (g) of AD. No defects noted. AD 2013-02-04 PCW 12/20/2013 @ Tach 2199.4 Next due 12/31/2020 or Tach 4199 See A.D. List. Cowled engine, installed aircraft panels and interior. Washed and waxed aircraft. Detailed flight deck. Installations and removals listed above have been performed in accordance with manufacturer's specs. This Aircraft is approved for return to service. This aircraft has been inspected in accordance with an 100 hr inspection as per FAR 43, App D, and with reference to Piper Service Manual and was determined to be in an airworthy condition. John Harris A&P 3646223 																				
This AIRCRAFT has been inspected I.A.W. an annual inspection as per FAR 43, App D and Piper Service Manual and was determined to be in an airworthy condition. Robert D. Hawkins A&P 1639492 IA 																				
<table border="1"> <tr> <td>REG #</td> <td>N21870</td> <td>DATE</td> <td>04/08/2018</td> </tr> <tr> <td>MODEL</td> <td>PA28R201</td> <td>TACH/HM</td> <td>2501.6</td> </tr> <tr> <td>S/N</td> <td>28R-7837309</td> <td>TTAF</td> <td></td> </tr> <tr> <td>TTE</td> <td></td> <td>SPOH</td> <td></td> </tr> </table>					REG #	N21870	DATE	04/08/2018	MODEL	PA28R201	TACH/HM	2501.6	S/N	28R-7837309	TTAF		TTE		SPOH	
REG #	N21870	DATE	04/08/2018																	
MODEL	PA28R201	TACH/HM	2501.6																	
S/N	28R-7837309	TTAF																		
TTE		SPOH																		
Repaired/adjusted trim indicator, rigged stabilator trim per Piper Manual, repaired wiring to emergency extension lever.  AP 3454695																				
April 23, 2018 N21870 S/N: 28R-7837309 Tach: 2512.5 Hobbs: 255.7																				
1. Reinstalled Stabilator Trim Cable into Trim Wheel. 2. Adjusted Stabilator trim cables to proper tension and safety wired turnbuckles. 3. Removed and reinstalled trim wheel cover, tail cone cover and aft bulkhead plastics to facilitate other maintenance.																				
Operational checks performed with no defects noted at this time. All maintenance performed in accordance with the manufacturer's maintenance manual and the AC 43.13. I certify this AIRFRAME was found to be in an airworthy condition and is approved for return to service for the work performed. END  Matthew Winningham AP3771888 Box Aviation, Inc.																				

SUB-TOTALS this page

TOTALS—Carry forward to next page

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Red River Aircraft Repair, LLC 15985 US Hwy 283, Hangar 32 Altus, OK 73521				
Date: 10/18/2018; Aircraft: N21870; Type: PA-28R-201; S/N: 28R-7837309; Hobbs: 275.1; Tach: 2531.4; Total Time: 8352.5; Engine - Type: Lycoming IO-360-C1C6, S/N: RL-10589-51A, Time: 5661.9, Last MOH: 5550.0-8/02/2016, SMOH: 111.9; Prop - Type: McCauley B2D34C213-B, S/N: 000913, Time: 1726.7, Last Prop MOH: 1617.8-5/09/2016, SMOH: 108.9; Work Done At - Airframe Time: 8352.5, Engine Time: 5661.9, Shop Order #: 18-1968				
- Removed Fuel Flow/Manifold Pressure gauge (P/N 6331 S/N 177573) and sent out to be overhauled by Rudy Aircraft Instruments. (See 8130-3 tag dated 11/OCT/2018). reinstalled and ops checked. No defects noted. - Removed and replaced vacuum pump annunciator bulb P/N 330. Ops checked. - Removed and replaced garter filter P/N B3-5-1. - Removed Gill battery P/N G35 S/N and installed Concord battery P/N RG-35AXC S/N 40976511 (See 8130-3 tag dated 04/SEP/2018). - Verified trim cable tension, set at 16lbs. S/B 12lbs +/-2 with temperature at 80deg add 2lbs. Within tolerance. - Removed Landing light bulb P/N and installed FAA-PMA Whelen Parmetheus Plus LED Landing light Model P36P1L (01-0771833-10) S/N 14102. Installed per Whelen installation manual. - Serviced tires and nose strut.				
Installations and removals listed above have been performed in accordance with manufacturer's maintenance manual. This aircraft is approved for return to service with respect to maintenance performed.				
Tito Antonio Vargas A&P 4116134 <i>T. Antonio Vargas</i>				
SUB-TOTALS this page				
TOTALS—Carry forward to next page				

TOTALS—Carry forward to next page

Red River Aircraft Repair, LLC

15985 US Hwy 283, Hangar 32
Altus, OK 73521

Date: 4/12/2019; Aircraft: N21870; Type: PA-28R-201; S/N: 28R-7837309; Hobbs: 330.2; Tach: 2584.9; Total Time: 8406.0; Engine - Type: Lycoming IO-360-C1C6, S/N: RL-10589-51A, Time: 5715.4, Last MOH: 5550.0-8/02/2016, SMOH: 165.4; Prop - Type: McCauley B2D34C213-B, S/N: 000913, Time: 1780.2, Last Prop MOH: 1617.8-5/09/2016, SMOH: 162.4; Work Done At - Airframe Time: 8406.0, Engine Time: 5715.4, Shop Order #: 19-1999

- * Troubleshoot intermediate spiking of ammeter gauge while in flight every 10 seconds. Determined spiking caused by landing gear motor on powerpack pressurizing. Landing gear was internally leaking hydraulic fluid at the nose gear actuator. Removed actuator and replaced (3) MS28775-213, (1) MS28775-110 orings, (1) NAS1523-5Y stat o seal and (1) MS28782-08 retainer backup seal. Reinstalled actuator and cycled gear several times and held in up position 2 times, powerpack motor did not pressurize after 6 minutes of operation. Ops and leak checked actuator. Serviced powerpack with hydraulic fluid. No other defects noted.

Installations and removals listed above have been performed in accordance with manufacturer's maintenance manual. This aircraft is approved for return to service with respect to maintenance performed.

Tito Antonio Vargas A&P 4116134

Red River Aircraft Repair, LLC

15985 US Hwy 283, Hangar 32
Altus, OK 73521

Date: 11/04/2019; Aircraft: N21870; Type: PA-28R-201; S/N: 28R-7837309; Hobbs: 335.1; Tach: 2611.7; Total Time: 8432.8; Engine - Type: Lycoming IO-360-C1C6, S/N: RL-10589-51A, Time: 5742.2, Last MOH: 5550.0-8/02/2016, SMOH: 192.2; Prop - Type: McCauley B2D34C213-B, S/N: 000913, Time: 1807.0, Last Prop MOH: 1617.8-5/09/2016, SMOH: 189.2; Work Done At - Airframe Time: 8432.0, Engine Time: 5742.2, Shop Order #: 19-2048

- * Oil serviced with 7 quarts of Aeroshell 15W-50.
- * Oil filter changed. Filter cut open and examined. Nothing unusual found.
- * Compression check c/w # 1 76, # 2 78, # 3 80, # 4 78
- * Removed, cleaned, inspected plugs and reinstalled with new copper gaskets.
- * Washed engine. Ran engine, leak and op check good.

Installations and removals listed above have been performed in accordance with manufacturer's maintenance manual. This aircraft is approved for return to service with respect to maintenance performed.

Tito Antonio Vargas A&P 4116134

SUB-TOTALS this page

TOTALS—Carry forward to next page

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Red River Aircraft Repair, LLC
15985 US Hwy 283, Hangar 32
Altus, OK 73521



Date: 4/15/2020; Aircraft: N21870; Type: PA-28R-201; S/N: 28R-7837309; Hobbs: 365.2; Tach: 2618.4; Total Time: 8439.5; Engine - Type: Lycoming IO-360-C1C6, S/N: RL-10589-51A, Time: 5748.9, Last MOH: 5550.0-8/02/2016, SMOH: 198.9; Prop - Type: McCauley B2D34C213-B, S/N: 000913, Time: 1813.7, Last Prop MOH: 1617.8-5/09/2016, SMOH: 195.9; Work Done At - Airframe Time: 8439.5, Engine Time: 5748.9, Shop Order #: 20-2084

- * Performed 100/Annual Inspection I/A/W FAR 43 App D. All work was performed I/A/W Piper PA28R-201 Maintenance Manual.
- * Gascolator removed & inspected and reinstalled.
- * Exhaust system was removed, inspected, and reinstalled. Th fwd exhaust muffler was removed and replaced P/N A67517-00 S/N 86951. Exhaust system pressurized and shrouds inspected. No defects or leaks noted.
- * Removed and replaced air filter.
- * Lubed aircraft as required.
- * Inspected wheel bearings, Nose wheel bearings showed signs of corrosion. Removed and replaced nose wheel bearings.
- * Inspected brake pads and linings, no defects noted.
- * Back bleed brakes and serviced reservoir.
- * Removed, serviced and reinstalled shimmy damper.
- * Removed and Replaced vacuum filter(s).
- * Control cable tension checked. All cables within tolerance.
- * C/W ELT INSPECTION IAW 91.207(d). BATTERY DUE: OCT 2021.
- * Aircraft battery service and charged.
- * Removed and replaced LH MLG tire 6x6.00 S/N B3E44619 and tube
- * Removed and replaced oil door lock P/N 473-142
- * Ailerons adjusted due to plane turning right in flight and when in auto pilot. Adjusted ailerons per Piper Service Manual by rigging ailerons and verifying cable tensions.
- * Adjusted stabilator trim cables to maintain cable tension of 14 lbs +/- 1. And adjusted trim travel to maintain the up 3 degrees and down 12 +/- 1 per Piper Service Manual. Safety wired turn buckles.
- * Removed fuel selector valve due to valve sticking. Inspected and cleaned, no defects noted. Reinstalled and leak and ops checked good. No other defects noted.
- * Removed and repacked nose wheel actuator due to leaking. Replaced orings and ops checked by cycling gear. No leaks noted
- * Performed normal/emergency gear retraction, ops check good.
- * LH fuel tank leaking at fwd fuel fitting due to being loose. Drained fuel and removed, cleaned and reinstalled. Verified by adding fuel and leak check. No other defects noted.
- * AD 2017-14-04 PCW Hoses replaced at Tach 2421.6 and Inspected per (g) of AD. No defects noted.
- * AD 2013-02-04 PCW 12/20/2013 @ Tach 2199.4 Next due 12/31/2020 or Tach 4199
- * See A.D. List.
- * Cowled engine, installed aircraft panels and interior.
- * Washed and waxed aircraft. Detailed flight deck

This AIRCRAFT has been inspected in accordance with an 100Hr. Inspection and is approved for return to service as of this date. See A.D. List.
Tito Antonio Vargas A&P 4116134

This AIRCRAFT has been inspected in accordance with an Annual. Inspection and is approved for return to service as of this date. See A.D. List.
John Harris A&P 3646223 IA

SUB-TOTALS this page

TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
9/12/2020		2669.9		Replaced NAV Lights (wingtips + tail) with Aero-lites LED Replacement A/c NAV/Pos. Lamps P# 7512NM-G/7512NM-R/1777NM-W ops check OK / NO radio/NAV equipment interference wt + balance negligible affect to installation above.
				<i>Jeff Swanson</i> # 3033592

Red River Aircraft Repair, LLC
15985 US Hwy 283, Hangar 32
Altus, OK 73521



Date: 9/18/2020; Aircraft: N21870; Type: PA-28R-201; S/N: 28R-7837309; Hobbs: 418.0; Tach: 2670.9; Total Time: 8492.0; Engine - Type: Lycoming IO-360-C1C6, S/N: RL-10589-51A, Time: 5801.4, Last MOH: 5550.0-8/02/2016, SMOH: 251.4; Prop - Type: McCauley B2D34C213-B, S/N: 000913, Time: 1866.2, Last Prop MOH: 1617.8-5/09/2016, SMOH: 248.4; Work Done At - Airframe Time: 8492.0, Engine Time: 5801.4, Shop Order #: 20-2118

- * Verified trim wheel and and tab cable tension. Within tolerance of 14lbs +/-2. Cable at 16.
- * Removed and cleaned Fuel selector valve due to stiff valve. Cleaned and reinstalled, no defects noted. Ops and leak checked good.
- * Installed heat shield material on cowl around exhaust pipes to prevent further damage from exhaust heat to cowl.
- * Removed and replaced oil access door doubler due to being cracked and not allowing door to latch in flight.

Installations and removals listed above have been performed in accordance with manufacturer's maintenance manual. This aircraft is approved for return to service with respect to maintenance performed.

Tito Antonio Vargas A&P 4116134

T. A. Vargas

Grand Aviation Businesses

1360 Aviation Way, Colorado Springs, Colorado 80916

Airframe

Date:- September 26, 2020

A/cft. Reg.:- N21870

Ser. Num.:- 28R-7837309

TACH: ~~MOH~~ 2675.6

T.T. Acft:- ~~WHS~~ 8496.7

Maintenance Description

Replaced the nose landing gear tire and tube assembly

Mechanic's Signature:-

Garth S. Budd

Certificate Number:- AP3407348

TOTALS—Carry forward to next page

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
				TOTALS brought forward from previous page
02/01/2021	8500	300	2695	Per AD 2020-26-16 (Wing Spar AD) Using Supplement guide for Docket No. FAA 2018-1046. A/c has reached 5,000 hrs TIS. Logbook review and FSIT calculated @ $[8500 - (25 \times 100)] / 17 + (25 \times 100) = 2852$. (see Annual Inspection for 2019 for supporting Documentation).
				Jeff Swanson Pilot #3033592

Aircraft Structural Inspections LLC
FAA CRS #INPR910B
Mountain View AR 72560

Aircraft Make & Model Piper PA-28R-201 Aircraft Registration N21870
Date 12/MAY/2021 TTAF Time Tach: 8556.7 Serial Number 28R-7837309
Factored Service Hours L/H Wing 3515.1, Factored Service Hours R/H Wing 3515.1

Accomplished Eddy Current inspection on the Left and Right Outboard Wing Spar Bolt Holes as directed by AD 2020-26-16 dated February 16, 2021 and Piper Aircraft Service Bulletin No. 1345, dated March 27, 2020. All other information may be found in ASI WO# 4129.

No Rejectable Defects Noted.

Mark White
Inspected By: NAS-410 Level III

SUB-TOTALS this page

TOTALS—Carry forward to next page

Aircraft Structural Inspection LLC
NON DESTRUCTIVE TESTING & INSPECTIONS
FAA CRS #INPR910B
108a W Washington
Mountain View AR 72560
Ph 870-270-6007

Certificate of Conformance

DATE: 12/MAY/2021 WO#: 4129 PO #: Verbal INVOICE #: 4170

NAME: Tezaguic-Swanson Olga I
ADDRESS: 4412 Montego Dr.
CITY, ST, ZIP: Wichita Falls, TX 76308-4015
PH: (940) 257-8663

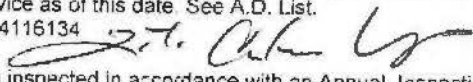
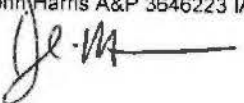
Aircraft Model		PA-28R-201
Aircraft Registration		N21879
Aircraft Serial Number		28R-7837309
Recording Time		Tach - 8556.7
QTY	PART NUMBER	DESCRIPTION
1	--	Wing SPAR RH Fwd Outboard Bolt Hole
		Eddy Current Inspection. No Rejectable Defects Noted
1	--	Wing Spar RH Aft Outboard Bolt Hole
		Eddy Current Inspection. No Rejectable Defects Noted
1	--	Wing Spar LH Fwd Outboard Bolt Hole
		Eddy Current Inspection. No Rejectable Defects Noted
1	--	Wing Spar LH Aft Outboard Bolt Hole
		Eddy Current Inspection. No Rejectable Defects Noted

PROCESS PERFORMED: Reference FAA Approved Data AD 2020-26-16 dated February 16, 2021
and Piper Aircraft Service Bulletin No. 1345, dated March 27, 2020.

The Item Identified above was Repaired or Inspected in Accordance with Federal Aviation Regulations.
Any additional information is on file at the above referenced Company under the assigned work order number.
The installer is responsible for ensuring complete compliance with any applicable Airworthiness Directives.

DATE: 12/MAY/2021

INSPECTOR: Mark White

DATE	TOTAL TIME IN SERVICE	TOTAL TIME SINCE OVERHAUL	TACH OR RECORDING METER TIME	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
Red River Aircraft Repair, LLC 15985 US Hwy 283, Hangar 32 Altus, OK 73521				
Date: 5/21/2021; Aircraft: N21870; Type: PA-28R-201; S/N: 28R-7837309; Hobbs: 483.0; Tach: 2735.7; Total Time: 8556.8; Engine - Type: Lycoming IO-360-C1C6, S/N: RL-10589-51A, Time: 5866.2, Last MOH: 5550.0-8/02/2016, SMOH: 316.2; Prop - Type: McCauley B2D34C213-B, S/N: 000913, Time: 1931.0, Last Prop MOH: 1617.8-5/09/2016, SMOH: 313.2; Work Done At - Airframe Time: 8556.8, Engine Time: 5866.2 Shop Order #: 21-2157				
* Performed 100/Annual Inspection I/A/W FAR 43 App D. All work was performed I/A/W Piper PA28R-201 Maintenance Manual. * Gascolator removed & inspected and reinstalled. * Exhaust system was removed, inspected, and reinstalled. The aft exhaust muffler was removed and replaced P/N A67517-00 S/N 207319. Exhaust system pressurized and shrouds inspected. No defects or leaks noted. * Removed and replaced air filter. * Lubed aircraft as required. * Inspected wheel bearings, no defects noted. * Inspected brake pads and linings, no defects noted. * Back bleed brakes and serviced reservoir. * Removed, serviced and reinstalled shimmy damper. * Removed and Replaced vacuum filter(s). * Corrosion Control Inspection c/w no defects noted. * Control cable tension checked. All cables within tolerance. * C/W ELT INSPECTION IAW 91.207(d). BATTERY DUE: OCT 2021. * Aircraft battery service and charged. * Removed and replaced Insight OAT probe on LH side P/N 1200-021 ops check good. * Inspected front nose gear light flickering, by inspecting wires and connections. Performed gear retract, noted was light bulb loose. No other defects noted. * Ailerons adjusted due to plane turning right in flight and when in auto pilot. Adjusted ailerons per Piper Service Manual by rigging ailerons and verifying cable tensions. * Inspected stabilator trim cables to maintain cable tension of 14 lbs +/- 1. * Removed fuel selector valve due to valve sticking. Inspected and cleaned, no defects noted. Reinstalled and leak and ops checked good. No other defects noted. * Performed normal/emergency gear retraction, ops check good. * AD 2017-14-04 PCW Hoses replaced at Tach 2421.6 and Inspected per (g) of AD. No defects noted. * AD 2013-02-04 C/W AD by inspecting the stabilator control system following instructions 1 through 10 of Piper Aircraft, Inc. Mandatory Service Bulletin No. 1245A, dated November 28, 2012. No defects noted. Next due at tach 4735.7 or May/2028 * AD 2020-26-16 C/W AD by accomplishing eddy current inspection on LH/RH outboard wing spar bolts as directed by Piper Aircraft SB 1375, dated March 27, 2020. Inspection performed by Aircraft Structural Inspections LLC see certificate of conformance and logbook entry dated 12/MAY/2021. Removed and replaced OB bolts on lower LH and RH wing spars per AD. Next due at 5000 time in service hours * Cowed engine, installed aircraft panels and interior. * Washed and waxed aircraft. Detailed flight deck. * See AD list				
This AIRCRAFT has been inspected in accordance with an 100Hr. Inspection and is approved for return to service as of this date. See A.D. List. Tito Antonio Vargas A&P 4116134 				
This AIRCRAFT has been inspected in accordance with an Annual. Inspection and is approved for return to service as of this date. See A.D. List. John Harris A&P 3646223 IA 				

SUB-TOTALS this page

TOTALS—Carry forward to next page

TOTALS—Carry forward to next page

AERO MAINTENANCE INC.

Date : 01-08-25

Wichita falls TX. 76305

ARK

Type: Piper

N21870

Model: PA28R-201

Serial No: 28R-7837309

Tach: 2948.0

TT: 8753.0

Inspection Accomplished

Annual Inspection

Maintenance accomplished

1. Complied with FAR 91.207 ELT test and inspection. Battery due 4-2027
2. Replaced vacuum regulator filter with new PN B3-5-1
3. Replace instrument air filter PN D9-18-1
4. Replace engine intake filter. P/N-BA-10
5. Adjust loose aileron cables and safety per piper maintenance manual
6. Repaired wiring on insight fuel flow transducer as needed
7. Replace defective OAT probe with new PN I200-021, Ops checks good
8. Replaced worn door hinge clevis pins as needed
9. Remove and reseal parking brake valve master cylinder leak checks good
10. Replace RH MLG tire with new PN AB3E4 SN 8ABE44024 and inner tube PN GL-6020B, Balance wheel, Install
11. Remove nose gear retract actuator, Replace o-rings MS28775-110 and MS28775-213, Reinstalled actuator
12. Swing gear and adjusted IAW maintenance manual. Emergency extension check good.
13. Service hydraulic power pack with 5606
14. CW STC SA1216GL instructions for continued airworthiness wing root fairing installation, No defects noted at this time

Run up and opts checks and leak checks all good.

AD s complied with

AD 76-07-12 complied with by operational check, No discrepancies noted

AD 2024-14-03 NA, Not installed this aircraft

This aircraft has been inspected in accordance with FAR 43 Appendix D and Piper maintenance manual for an annual inspection and is found airworthy at this time.

Signature and Rating

[Signature] A6P349594214

SUB-TOTALS this page

TOTALS—Carry forward to next page