

# Langston Aviation

Owner: James G. Thridge

## Inspection Checklist

Aircraft Make & Model Piper PA-28-140

Start Date 3/4/17

Registration N4329T

End Date 3/25/17

S/N 28-2225146

Tach Time 5063.57 Hour Meter 888.8 Time since last annual 5.4

TTAF 5063.57 TT prop \_\_\_\_\_ TS Prop O/H \_\_\_\_\_

TTE 3819.86 TSMOH 831.86 TSTOH \_\_\_\_\_

### ENGINE

- 1) Remove cowling ☐
- 2) Inspect basic engine for condition ☐
- 3) Inspect engine mount for cracks ☐
- 4) Inspect lord mounts / isolators for condition ☐
- 5) Check mount bolts for condition ☐
- 6) Compression check #1 74 #2 70 #3 72 #4 76 #5 \_\_\_\_\_ #6 \_\_\_\_\_ #7 \_\_\_\_\_ #8 \_\_\_\_\_ #9 \_\_\_\_\_
- 7) Drain oil ☐
- 8) Serviced engine with \_\_\_\_\_ qts. \_\_\_\_\_ oil \_\_\_\_\_
- 9) Inspect oil screen or filter ☐
- 10) Ck mag timing ☐
- 11) Ck mags for condition ☐
- 12) Inspect ignition harness ☐
- 13) Clean & gap spark plugs R&R
- 14) drain carb. bowl ☐
- 15) Inspect carburetor for condition ☐
- 16) Inspect fuel / oil hoses ☐
- 17) Check carb air box for condition ☐
- 18) Check alternate air valve for security & operation NA
- 19) Inspect gascolator ☐
- 20) Inspect induction hose & oil drain hose clamps for tightness ☐
- 21) Inspect exhaust stacks for cracks, burned spots, & security ☐
- 22) inspect muffler / shroud for condition ☐
- 23) Inspect exhaust gaskets, flanges, clamps, & EGT probes for condition ☐
- 24) Inspect starter motor for security / condition ☐
- 25) Inspect generator / alternator for security / condition ☐
- 26) inspect all electrical wires for condition, security, & routing ☐
- 27) Inspect engine baffles for condition ☐
- 28) Inspect vacuum pump & hoses for condition ☐
- 29) Inspect oil cooler for condition & security ☐
- 30) Clean engine ☐
- 31) Reinstall cowling ☐

### FUEL INJECTED / TURBO CHARGED ENGINES

- 1) Clean fuel injector nozzles \_\_\_\_\_
- 2) Inspect fuel injection system, lines, & clamps for leaks & condition \_\_\_\_\_
- 3) Inspect fuel servo / fuel pump for condition / security \_\_\_\_\_
- 4) Inspect turbocharger system, Marmon clamps, & tailpipe for security & condition \_\_\_\_\_
- 5) Lubricate waste gate \_\_\_\_\_

### PROPELLER

- 1) Inspect prop blades for nicks & cracks ☐
- 2) Inspect prop blades for security / rotation in hub NA
- 3) Inspect hub for cracks & oil leaks ☐
- 4) Lubricate propeller hub NA Inspect de-ice boots NA
- 5) Inspect spinner, backplate, & mounting brackets for cracks, condition, & security NA
- 6) If necessary, repaint face of propeller blades flat black \_\_\_\_\_
- 7) reinstall spinner ☐

## FUSELAGE

- 1) Remove all inspection plates & panels [REDACTED]
- 2) Inspect fuselage for general condition of skin & internal structure, corrosion, & loose rivets [REDACTED]
- 3) Check condition & proper installation of fabric on fabric covered aircraft MA
- 4) Inspect all control cables, pulleys, fairleads for condition [REDACTED] 5) Inspect torque tubes & bearings [REDACTED]
- 6) Inspect battery box for condition [REDACTED] 7) Verify drain hole open [REDACTED] 8) service battery [REDACTED]
- 9) Inspect under instrument panel for accessory installation, chafing wires, wire routing, & general condition [REDACTED]
- 10) Inspect vacuum filters for condition [REDACTED] 11) Inspect pitot / static / vacuum hose for condition, routing [REDACTED]
- 12) Inspect seats & rollers for condition [REDACTED] 13) Inspect seat rails & seat locks for condition [REDACTED]
- 14) Inspect windshield & windows for condition & seal [REDACTED] 15) Ck door latch operation & condition [REDACTED]
- 16) Ck upholstery for condition [REDACTED] 17) Ck control wheel or stick for operation [REDACTED]
- 18) inspect control wheel bushings @ firewall [REDACTED] 19) Inspect rudder pedals for cracks / wear [REDACTED]
- 22) Inspect brake hoses for condition 21) Ck trim control for operation [REDACTED]
- 22) Inspect fuselage fuel tank for condition, if installed MA 23) Ck fuel valve operation & condition [REDACTED]
- 24) Inspect all fuel line & hoses for leaks & condition [REDACTED] 25) fuel valve properly placarded? [REDACTED]
- 26) Verify all required placards are installed & readable [REDACTED] 27) Ck that instruments properly marked [REDACTED]
- 28) Ck that registration numbers are legally marked [REDACTED] 29) DEA placard installed? [REDACTED]
- 30) Lubricate all pulleys, hinges, jackscrews, trim chains, & moving parts [REDACTED] Re-install all insp. plates [REDACTED]

## EMPENNAGE

- 1) Remove all inspection plates & panels [REDACTED] 2) Inspect tail & brace wires for general / structural condition MA
- 3) Inspect empennage attach points [REDACTED] 4) Inspect all control cables, pulleys, & torque tubes for condition [REDACTED]
- 5) Inspect elevators / rudder(s) for condition [REDACTED] 6) Inspect hinges [REDACTED] 7) verify hitting stops [REDACTED]
- 8) Inspect trim tabs & hinges [REDACTED] 9) Inspect trim control system [REDACTED] 10) Lubricate per MM [REDACTED]
- 11) Ck security of counterweights [REDACTED] 12) re-install all inspection plates & panels [REDACTED]

## WINGS

- 1) remove all inspection plates & wing root panels [REDACTED] 2) Inspect condition of wing struts & flying wires MA
- 3) Inspect general condition of wing skins & internal structure. Ck for loose rivets [REDACTED]
- 4) Inspect condition of wing attaching hardware [REDACTED] 5) Inspect all cables, pulleys, bellcranks, & guides [REDACTED]
- 6) Inspect condition of ailerons & flaps [REDACTED] 7) Inspect rod end bearings, hinges, & flap tracks [REDACTED]
- 8) Inspect flap actuator / jackscrew MA 9) Inspect trim tab MA 10) Ck trim control system & cables MA
- 11) Inspect fuel tanks for leaks & condition [REDACTED] 12) Ck for proper fuel placards [REDACTED]
- 13) Inspect all fuel hoses for condition [REDACTED] 14) Inspect condition of wingwalk [REDACTED]
- 15) Lubricate all pulleys, hinges, flap jackscrew, & all moving parts per Maintenance Manual [REDACTED]
- 16) Re-install all inspect plates & panels [REDACTED]

## LANDING GEAR

- 1) Inspect tires for wear, cuts, or slippage \_\_\_\_\_ 2) Clean, inspect, & repack wheel bearings \_\_\_\_\_  
3) Inspect wheels for condition, cracks, & loose bolts \_\_\_\_\_ 4) Ck brake discs for condition & wear \_\_\_\_\_  
5) Inspect brake pads or shoes for wear & security \_\_\_\_\_  
6) Inspect brake slave cylinders, master cylinders, & brake hoses for condition \_\_\_\_\_

## TRICYCLE GEARED AIRCRAFT

- 7) Inspect oleo struts for leaks & inflation \_\_\_\_\_ 8) Inspect oleo strut scissors for cracks, condition, & wear \_\_\_\_\_  
9) Inspect landing gear vees or struts for condition \_\_\_\_\_ 10) Inspect nose gear strut / fork for condition \_\_\_\_\_  
11) Inspect shimmy dampner for condition & service \_\_\_\_\_ 12) Inspect steering control \_\_\_\_\_

## CONVENTIONAL GEAR AIRCRAFT

- 13) Inspect tailwheel fork & springs for condition \_\_\_\_\_ 14) Inspect tailwheel bearings for condition \_\_\_\_\_  
15) Inspect steering horn, cables, & springs for condition & wear \_\_\_\_\_ 16) Lubricate tailwheel \_\_\_\_\_

## RETRACTABLE GEAR AIRCRAFT

- 17) Perform a retraction test \_\_\_\_\_ 18) Ck operation of warning lights or horn \_\_\_\_\_  
19) Ck operation of uplock devices if installed \_\_\_\_\_ 20) Ck downlock mechanism or preload \_\_\_\_\_  
21) Ck emergency gear down operation \_\_\_\_\_ 22) Ck operation of "gear down" indicator \_\_\_\_\_  
22) Inspect condition of ldg. gear actuator hoses, fittings, & actuators \_\_\_\_\_

## ELECTRONIC AND ELECTRICAL EQUIPMENT

- 1) Ck navigation lights for operation \_\_\_\_\_ 2) Ck condition of nav light lens covers \_\_\_\_\_  
3) Ck landing & taxi lights for operation \_\_\_\_\_ 4) Ck condition of landing / taxi light cover \_\_\_\_\_  
5) Check stall warning for operation \_\_\_\_\_ 6) Check pitot heat for operation \_\_\_\_\_  
7) Ck strobe light / rotating beacon for operation \_\_\_\_\_ 8) Ck condition of light covers \_\_\_\_\_  
9) Ck interior lights for operation \_\_\_\_\_ 10) Inspect that all switches & fuses properly labeled \_\_\_\_\_  
911 ELT battery expiration date Jan '19 12) Ck ELT operation per FAR 91.207(d) \_\_\_\_\_

## MISCELLANEOUS

- 1) Airworthiness Certificate displayed in aircraft \_\_\_\_\_  
2) Aircraft Registration displayed in aircraft \_\_\_\_\_ 3) Registration expiration date Feb 29, 2020  
4) Flight Manual or POH in aircraft \_\_\_\_\_ 5) Aircraft weight & balance records current \_\_\_\_\_  
6) Log Books available & up to date \_\_\_\_\_

## REGISTERED OWNER INFO

Name on registration James Fethridge  
Address \_\_\_\_\_  
City Spring Branch, TX 78270

EQUIPMENT / ACCESSORY LIST

AIRCRAFT OWNER \_\_\_\_\_

ADDRESS \_\_\_\_\_

PHONE NUMBER \_\_\_\_\_

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ENGINE MAKE \_\_\_\_\_ MODEL \_\_\_\_\_ S/N \_\_\_\_\_

PROPELLER MAKE \_\_\_\_\_ MODEL \_\_\_\_\_ S/N \_\_\_\_\_

MAGNETOS:                      LEFT                                              RIGHT

MAKE                      \_\_\_\_\_                                              \_\_\_\_\_

MODEL                      \_\_\_\_\_                                              \_\_\_\_\_

P/N                      \_\_\_\_\_                                              \_\_\_\_\_

S/N                      \_\_\_\_\_                                              \_\_\_\_\_

CARBURETOR MAKE \_\_\_\_\_ MODEL \_\_\_\_\_ P/N \_\_\_\_\_ S/N \_\_\_\_\_

FUEL INJECTOR  
SERVO              MAKE \_\_\_\_\_ MODEL \_\_\_\_\_ P/N \_\_\_\_\_ S/N \_\_\_\_\_

FUEL PUMP              MAKE \_\_\_\_\_ P/N \_\_\_\_\_ S/N \_\_\_\_\_

VACUUM PUMP              MAKE \_\_\_\_\_ P/N \_\_\_\_\_ S/N \_\_\_\_\_

PROP GOVERNOR              MAKE \_\_\_\_\_ P/N \_\_\_\_\_ S/N \_\_\_\_\_

ELT                      MAKE \_\_\_\_\_ MODEL \_\_\_\_\_ S/N \_\_\_\_\_

ALTIMETER              MAKE \_\_\_\_\_ MODEL \_\_\_\_\_ S/N \_\_\_\_\_

ALTERNATOR              MAKE \_\_\_\_\_ MODEL \_\_\_\_\_ S/N \_\_\_\_\_

STARTER              MAKE \_\_\_\_\_ MODEL \_\_\_\_\_ S/N \_\_\_\_\_