

PIPER AIRCRAFT CORPORATION

INSPECTION REPORT

THIS FORM MEETS REQUIREMENTS OF FAR PART 43

Make PIPER TRI-PACER AND CARIBBEAN	Model PA-22-125, PA-22-135 PA-22-150, PA-22-160	Serial No.	Registration No.
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Circle Type of Inspection (SEE NOTE 1, PAGE 3) 50 100 500 1000 Annual					Inspector	Perform inspection or operation at each of the inspection intervals as indicated by a circle (○).					Inspector
DESCRIPTION	50	100	500	1000		DESCRIPTION	50	100	500	1000	
A. PROPELLER GROUP						21. Remove air filter and clean (Refer to Owner's Handbook.) (Replace as required.)	○	○	○	○	
1. Inspect spinner and black plate	○	○	○	○		22. Drain carburetor and clean inlet line fuel strainer	○	○	○	○	
2. Inspect blades for nicks and cracks	○	○	○	○		23. Check condition of carburetor heat air door and box	○	○	○	○	
3. Check for grease and oil leaks	○	○	○	○		24. Check intake seals for leaks and clamps for tightness	○	○	○	○	
4. Lubricate propeller per lubrication chart.	○	○	○	○		25. Remove, drain and clean fuel filter bowl and screen (Drain and clean at least every 90 days.)	○	○	○	○	
5. Check spinner mounting brackets	○	○	○	○		26. Check condition of flexible fuel and primer lines	○	○	○	○	
6. Check propeller mounting bolts and safety (Check torque if safety is broken.)	○	○	○	○		27. Replace flexible fuel lines (SEE NOTE 2).	○	○	○	○	
7. Inspect hub parts for cracks and corrosion	○	○	○	○		28. Check fuel system for leaks	○	○	○	○	
8. Rotate blades of constant speed propeller and check for tightness in hub pilot tube	○	○	○	○		29. Check venturi or vacuum pump, lines and separator	○	○	○	○	
9. Remove constant speed propeller, remove sludge from propeller and crankshaft	○	○	○	○		30. Overhaul or replace vacuum pump (SEE NOTE 2)	○	○	○	○	
10. Overhaul propeller	○	○	○	○		31. Check throttle, carburetor heat, and mixture controls for travel and operating condition	○	○	○	○	
B. ENGINE GROUP						32. Inspect exhaust stacks, connections and gaskets (Replace exhaust gaskets as required.)	○	○	○	○	
CAUTION: Ground Magneto Primary Circuit before working on engine.						33. Inspect muffler, heat exchanger and baffles (Refer to Piper Service Letter No. 324B.)	○	○	○	○	
1. Remove engine cowl	○	○	○	○		34. Check exhaust stack braces.	○	○	○	○	
2. Clean and check cowling for cracks, distortion and loose or missing fasteners	○	○	○	○		35. Check breather tube for obstructions and security	○	○	○	○	
3. Drain oil sump	○	○	○	○		36. Check crankcase for cracks, leaks and security of seam bolts	○	○	○	○	
4. Clean suction oil strainer at oil change (Check strainer for foreign particles.)	○	○	○	○		37. Check engine mounts for cracks and loose mountings	○	○	○	○	
5. Clean pressure oil strainer (Check strained for foreign particles.)	○	○	○	○		38. Check all engine baffles for damage and security	○	○	○	○	
6. Check oil temperature sender unit for leaks and security	○	○	○	○		39. Check rubber engine mount bushings for deterioration (Refer to Piper Service Letter No. 223.) (See Note 3.)	○	○	○	○	
7. Check oil lines and fittings for leaks, security, chafing, dents and cracks.	○	○	○	○		40. Check condition of firewall seals	○	○	○	○	
8. Clean and check oil radiator cooling fins for damage	○	○	○	○		41. Check condition and tension of generator drive belt.	○	○	○	○	
9. Remove and flush oil radiator	○	○	○	○		42. Check condition of generator and starter.	○	○	○	○	
10. Fill engine with oil per lubrication chart	○	○	○	○		43. Lubricate all controls	○	○	○	○	
11. Clean engine	○	○	○	○		44. Complete overhaul of engine or replace with factory rebuilt (SEE NOTE 2)	○	○	○	○	
12. Check condition of spark plugs (Clean and adjust gap as required, adjust per Lycoming Service Instruction No. 1042.)	○	○	○	○		45. Reinstall engine cowl	○	○	○	○	
13. Check ignition harness and insulators (High tension leakage and continuity.)	○	○	○	○							
14. Check magneto points for proper clearance - Maintain clearance at 0.018 ± 0.006	○	○	○	○							
15. Check magneto for oil seal leakage	○	○	○	○							
16. Check breaker felts for proper lubrication	○	○	○	○							
17. Check distributor block for cracks, burned areas or corrosion, and height of contact springs	○	○	○	○							
18. Check magnetos to engine timing	○	○	○	○							
19. Overhaul or replace magnetos (SEE NOTE 2, PAGE 3)	○	○	○	○							
20. Check valve clearance at 0.010 on O-290-D engine only (Adjust per Lycoming Service Instruction No. 1068)	○	○	○	○							

Owner: _____

Circle Type of Inspection (SEE NOTE 1, PAGE 3) 50 100 500 1000 Annual	50	100	500	1000	Inspector	Perform inspection or operation at each of the inspection intervals as indicated by a circle (○).	50	100	500	1000	Inspector	
						DESCRIPTION						DESCRIPTION
C. CABIN GROUP												
1. Inspect cabin entrance, doors, latches and windows for damage and operation		○	○	○								
2. Check all plexiglas for cracks		○	○	○								
3. Check upholstery for tears		○	○	○								
4. Check seats, seat belts, security brackets and bolts		○	○	○								
5. Check trim operation and adjustment		○	○	○								
6. Check rudder pedals		○	○	○								
7. Check control yoke, chain, pulleys and cables		○	○	○								
8. Check flap lever for operation, adjustment and safety		○	○	○								
9. Check controls for ease of operation		○	○	○								
10. Check battery, box and cables (Check at least every 30 days. Flush box as required and fill battery per instructions on box.)	○	○	○	○								
11. Check landing, navigation, cabin and instrument lights		○	○	○								
12. Check fuse box for burned out fuses		○	○	○								
13. Check instruments, lines and attachments		○	○	○								
14. Check gyro operated instruments and electric turn and bank (Overhaul or replace as required.)		○	○	○								
15. Replace filters on gyro horizon and directional gyro or replace central air filter		○	○	○								
16. Clean or replace vacuum regulator filter		○	○	○								
17. Check altimeter (Calibrate altimeter system in accordance with FAR 91.170, if appropriate.)		○	○	○								
18. Check operation of fuel selector valve (Refer to Piper Service Letter No. 351.)		○	○	○								
19. Remove, drain and clean right fuel tank filter bowl and screen (Drain and clean at least every 90 days.)	○	○	○	○								
20. Check condition of heater control and duct		○	○	○								
21. Check condition and operation of air vents		○	○	○								
D. FUSELAGE AND EMPENNAGE GROUP												
1. Remove inspection plates and panels		○	○	○								
2. Check fabric and finish for cracks and deterioration (If condition of fabric is doubtful, refer to CAM 18 or FAA AC 43.13-1. Use strip test method.)		○	○	○								
3. Inspect fuselage fabric in area of windshield top attachment channel (Refer to Piper Service Bulletin No. 174.)		○	○	○								
4. Check electronic installations for security		○	○	○								
5. Check antenna mounts and electric wiring for damaged insulation and security		○	○	○								
6. Check rotating beacon for security and operation		○	○	○								
7. Check fuel lines for security and damage		○	○	○								
8. Check rudder, elevator and stabilizer trim cables, turnbuckles, guides and pulleys for safety, damage, corrosion and operation		○	○	○								
9. Check fuselage longerons and stringers for damage		○	○	○								
10. Check rudder, stabilizer and elevator structures for damage		○	○	○								
11. Check rudder attachments and horn for damage		○	○	○								
12. Check rudder hinge pins and bushings for excess wear and corrosion (Replace pins and/or bushings as required.)		○	○	○								
E. WING GROUP												
13. Check stabilizer yoke and screw for end play and security		○	○	○								
14. Check stabilizer attachments and attachment tube for side play.		○	○	○								
15. Check stabilizer brace wires for corrosion, tightness and safety		○	○	○								
16. Check elevator attachment and horn for damage		○	○	○								
17. Check elevator hinge pins and bushings for excess wear and corrosion (Replace pins and/or bushings as required.)		○	○	○								
18. Lubricate per lubrication chart		○	○	○								
19. Reinstall inspection plates and panels		○	○	○								
F. LANDING GEAR GROUP												
1. Remove fairings		○	○	○								
2. Check fabric and finish for cracks and deterioration		○	○	○								
3. Inspect gear and shock strut bolts and nuts for safety		○	○	○								
4. Hoist airplane, check gear and shock strut bolts and bushings for excess wear and corrosion (Replace bolts and/or bushings as required.)		○	○	○								
5. Inspect shock cords for broken threads and weakness, and shock struts for weakness (Replace cords and/or shock struts as necessary.)		○	○	○								
6. Check main wheel alignment (0° Toe in - Toe out)		○	○	○								

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50	100	500	1000	Annual		50	100	500	1000	Inspector	
F. LANDING GEAR GROUP (cont)						H. OPERATIONAL INSPECTION					
DESCRIPTION						DESCRIPTION					
7. Check nose gear alignment, steering control and travel						1. Check fuel tank selector					
8. Check shimmy dampener for alignment and operation						2. Check fuel quantity					
9. Check nose gear oleo strut for proper extension (3.5 in.) (Check for proper fluid level as required.)						3. Check oil pressure and temperature					
10. Check nose gear oleo strut for fluid leaks and scoring						4. Check generator output					
11. Check nose gear struts, attachments, torque links, and bolts and bushings for condition and security						5. Check carburetor heat					
12. Replace torque link and steering horn bolts and bushings						6. Check parking brake					
13. Check tires for cuts, uneven or excessive wear and slippage.						7. Check vacuum gauge					
14. Remove wheels, clean, check and repack bearings						8. Check gyros for noise and roughness					
15. Check wheels for cracks, corrosion and broken bolts						9. Check cabin heater operation					
16. Check tire pressure (Nose-15 psi / Main-22 psi)						10. Check magneto switch operation.					
17. Check brake lining and disc for excessive wear						11. Check magneto RPM variation					
18. Check brake lines for chafing and security						12. Check throttle and mixture operation					
19. Check brake cylinders, and parking valve for operation and leaks (Check fluid level as required.)						13. Check propeller smoothness.					
20. Lubricate per lubrication chart.						14. Check propeller governor action (constant speed)					
21. Reinstall fairings.						15. Check electronic equipment operation					
16. Check tire pressure (Nose-15 psi / Main-22 psi)						16. Check engine idle					
G. FLOAT GROUP						I. GENERAL					
1. Check float attachment fittings						1. Aircraft conforms to FAA Specifications					
2. Check floats for damage						2. All FAA Airworthiness Directives complied with					
3. Check pulleys and cables						3. All Manufacturers Service Letters and Bulletins complied with					
						4. Check for proper Flight Manual.					
						5. Aircraft papers in proper order.					

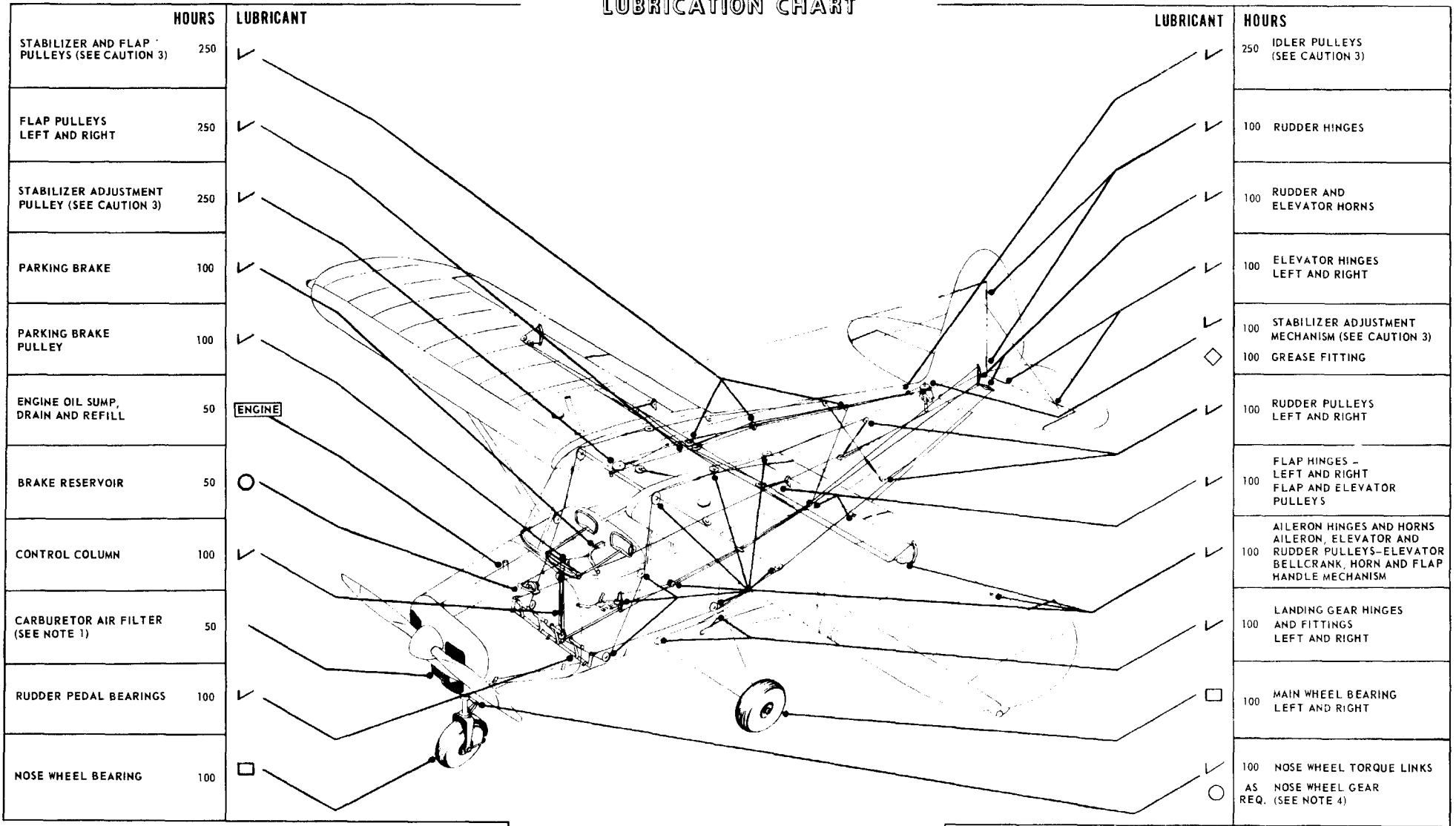
NOTES:

- Both the annual and 100 hour inspections are complete inspections of the airplane - identical in scope. Inspections must be accomplished by persons authorized by FAA.
- Replace or overhaul as required or at engine overhaul. (For engine overhaul, refer to Lycoming Service Instructions No. 1009.)
- It is recommended that all engine mount rubber bushings be replaced every five hundred hours.

REMARKS:

Signature of Mechanic or Inspector	Certificate No.	Date	Total Time on Airplane
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LUBRICATION CHART



NOTES

1. CARBURETOR AIR FILTER-CLEAN PER MANUFACTURER'S INSTRUCTIONS ON FILTER BOX OR INSTRUCTIONS IN OWNER'S HANDBOOK. (UNDER ABNORMAL CONDITIONS, FILTER REQUIRES CLEANING MORE FREQUENTLY. REPLACE AS REQUIRED.)
2. LUBRICATION POINTS-WIPE ALL LUBRICATION POINTS CLEAN OF OLD GREASE, OIL, DIRT, ETC. BEFORE RELUBRICATING.
3. WHEEL BEARING REQUIRES CLEANING AND REPACKING AFTER EXPOSURE TO AN ABNORMAL QUANTITY OF WATER.
4. NOSE WHEEL GEAR-FOLLOW INSTRUCTION PLACARD ON MOUNT OR INSTRUCTIONS IN OWNER'S HANDBOOK.

LEGEND

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|---|-------------|--|
| ◇ | MIL-G-23827 | GREASE, AIRCRAFT AND INSTRUMENT, GEAR AND ACTUATOR SCREW |
| ✓ | MIL-L-7870 | OIL-GENERAL PURPOSE LOW TEMP. LUBRICATION |
| □ | MIL-L-3545 | GREASE-LUBRICATION HIGH TEMPERATURE |
| ○ | MIL-H-5606 | HYDRAULIC FLUID (RED) |

ENGINE

SAE 50 ABOVE 60° F AIR TEMP
 SAE 40 BETWEEN 30° F AND 90° F AIR TEMP
 SAE 30 BETWEEN 0° F AND 70° F AIR TEMP
 SAE 20 BELOW 10° F AIR TEMP

SEE LYCOMING SERVICE INSTRUCTIONS NO. 1014 FOR USE OF DETERGENT OIL.

CAUTIONS

1. DO NOT USE A HYDRAULIC FLUID WITH A CASTER OIL OR ESTER BASE.
2. DO NOT APPLY LUBRICANT TO RUBBER PARTS.
3. TRIM CABLES - UNDER NO CIRCUMSTANCES SHOULD THE TRIM CABLES FROM THE COCKPIT TO THE REAR OF THE FUSELAGE BE LUBRICATED. (TO PREVENT SLIPPAGE)
4. CONTROL CABLES - WIPE CLEAN AT REGULAR INTERVALS BUT DO NOT LUBRICATE. UNDER SALT WATER CONDITIONS OCCASIONAL LUBRICATION WITH MIL-L-7870 IS RECOMMENDED.