

[OP No.] Engine condition evaluation before engine TBO extension and every 100 hrs or 1 year thereafter before next extension W/O No. _____

| Task Seq. # | Tasks listed below are based on ECAA General Precepts of 17 February 2011 | Signature | | | |
|---|--|-----------|--------|--------|--|
| 1 | 2 | 3 | | | |
| 1. | Engine - Inspect for evidence of oil and fuel leaks. Wash engine and check for security of accessories | | | | |
| 2. | Engine Cylinders, Rocker Box Covers, and Pushrod Housings - Check for fin damage, cracks, oil leakage, security of attachment, and general condition | | | | |
| 3. | Crankcase, Oil Sump, and Accessory Section - Inspect for cracks and evidence of oil leakage. Check bolts and nuts for looseness and retorque as necessary. Check crankcase breather lines for obstructions, security, and general condition. | | | | |
| 4. | Engine Shock Mounts, Engine Mount Structure, and Ground Straps - Check condition, security, and alignment | | | | |
| 5. | Hoses, Metal Lines, and Fittings - Inspect for signs of oil and fuel leaks. Check for abrasions, chafing, security, proper routing and support and for evidence of deterioration. | | | | |
| 6. | Ignition Harness and Insulators - Check for proper routing, deterioration, and condition of terminals | | | | |
| 7. | Propeller – check radial and axial play | | | | |
| 8. | Spark plugs – check for condition, normal color, evidence of oil | | | | |
| 9. | Check oil consumption | | | | |
| 10. | Cylinder Compression - Perform differential compression test. If there is weak cylinder compression, refer to Eng. Manual Chapter [Ch No., Title of eng manufacturer's manual] Troubleshooting, for further procedures | | | | |
| | Cyl. 1 | Cyl. 2 | Cyl. 3 | Cyl. 4 | |
| 11. | Cylinders, Piston Head, Valves Seats - Perform borescope inspection | | | | |
| 12. | Engine Oil – Drain oil sump and oil cooler. Check for metal particles or foreign material in filter, on sump drain plug, and on engine suction screen. Ref. Textron/Lycoming S.I. 1492 and SB 480 latest revision | | | | |
| 13. | Before and after the step-by-step inspection, start, run up, shut down the engine in accordance with instructions in the Owner's Manual and fill in Engine Run-up Chart | | | | |
| End of [Operation No.] Inspection Items | | | | | |

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| 1 | | 2 | | | | | | | | 3 | |
|------------------|------|----------------|---|---|---|---|-----|-----|-----|-----|-----|
| Extensions | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Flight Hours | Due | [2000*] | | | | | N/A | N/A | N/A | N/A | N/A |
| | Done | | | | | | N/A | N/A | N/A | N/A | N/A |
| Calendar Time | Due | [12 years*] | | | | | | | | | |
| | Done | | | | | | | | | | |

Notes:

1. For aircraft used in commercial operations engine TBO may be extended by 100 flight hours and 1 year after every engine condition evaluation, but not more than 20% in total from TBO established by engine manufacturer.
2. For aircraft not used in commercial operations engine TBO may be extended by 100 flight hours and 1 year after every engine condition evaluation, but not more than 50% in total from TBO established by engine manufacturer.
3. Calendar TBO may be extended by 1 year after every engine condition evaluation, but not more than 100% in total from calendar TBO established by engine manufacturer.
4. For additional restrictions refer to ECAA General Prescription from 17. veeb. 2011.

* Insert engine TBO.