

Turbine Power Technologies, Inc.

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100 Hour inspection.

- ☐ Remove torches and check for cracks
- ☐ Check thermocouples (D- From .1 to 2.5Ω) (E- From .7 to 1.4Ω individual)
- ☐ Borescope inspection of compressor turbine, power Turbine, compressor turbine nozzle, inner and outer combustion chamber, stator lug supports and first stage compressor.
- ☐ Tap check outer combustion chamber.
- ☐ Check front and rear chip detectors.
- ☐ Remove and sonic clean oil filter.
- ☐ Clean magnet on oil drain.
- ☐ Check spark plugs.
- ☐ Check spark plug wires.
- ☐ Check spark plug regulators. (If applicable)
- ☐ Test igniters Left and Right.
- ☐ Check for oil leaks.
- ☐ Clean prop governor, lubricate cable, joints and slides.
- ☐ Check beta block.
- ☐ Check prop bolts.
- ☐ Check for corrosion on prop.
- ☐ Check prop clamps.
- ☐ Check spinner and bolts.
- ☐ Check isolation valve.(ISOL)
- ☐ General inspection of all nuts and bolts, locking wire, engine mounts, cables, connections, oil leaks and electrics.
- ☐ Clean FCU and lubricate joints and slides.
- ☐ Bleed FCU. (4 ports start lowest to top)
- ☐ Check blow-off valve, if necessary, remove and clean.
- ☐ Start turbine and check parameters through first and second stage of start.
- ☐ Check fuel pressure min 18 PSI - Max 45 PSI (Preferred 28 to 32 PSI.)
- ☐ Check oil pressure min 30, max 39.
- ☐ Check N1 at idle min 60%, max 63%.
- ☐ Check voltage during start. Min 20 volts.
- ☐ Check ITT at idle 480 to 520 +-.
- ☐ Check after shut down for irregular bearing noise from compressor and power turbine.
- ☐ Check for cracks on exhausts.
- ☐ Check drains on fuel pump, FCU, hot section and EPA can.

Note: Fuel filter must be 10 micron or better.