

Turboexpanders With Oil Bearings

+1855 398 8726 24/7/365 service@LATurbine

FX-TURBO Wellness Checklist

\bigcirc	Machine Skid: KEEP IT CLEAN! A clean machine skid allows you to locate leaks. Pressure-wash the equipment annually and fix leaks promptly.
\bigcirc	Expander Inlet/Outlet: Check and record the pressures/temperatures of the expander inlet/outlet to ensure the unit is operating within the specified process conditions.
\bigcirc	Compressor Suction/Discharge: Check and record the pressures/temperatures of the compressor suction/discharge to ensure the unit is operating within the specified process conditions.
\bigcirc	Accumulator Charge: Check the accumulator charge pressure.
\bigcirc	Lube Oil: Inspect the lube oil. If oil is questionable upon visual inspection, send an oil sample for analysis. If required, change the oil.
\bigcirc	Valves: Verify all valves are in the correct open or closed position.
\bigcirc	Duplex Lube Oil Filter: If there is an alarm, simply switch to the other oil filter in the assembly. Later inspect and replace oil filter elements as needed.
\bigcirc	Seal Gas Filter: Open, inspect, and replace the seal gas filter elements as needed.
\bigcirc	Fan & Pump Motor Bearings: Grease the motor bearings per sub-vendor instructions.
\bigcirc	Instrumentation: Verify the proper operation of temperature and pressure instruments.
\bigcirc	Alarm: Refer to the instruction manual to verify the operation of the alarm and shutdown logic.
\bigcirc	Batteries: Check the original install date of the battery. Perform replacements of HMI batteries every four years and Allen Bradley Legacy PLC (SLC500) batteries every two years. Always record the date of the battery change.
\bigcirc	Variable Nozzle Actuator: Check the variable nozzle actuator for air supply pressure, air operating pressure and spring pre-load. NOTE: Shut down the machine prior to checking.
\bigcirc	Expander Shutdown Valve: Check operation of the expander shutdown valve. NOTE: Schedule and perform this check during a plant outage/turnaround. Operating this valve while the turboexpander is in

operation will cause the machine to shut down.