Maintenance Checklist for Portable Compressors

KAESER COMPRESSORS®

Don't treat service as a once-a-year requirement.

Compressors can be divided into six sub-assemblies (seen below), and must be checked and maintained on a regular basis. This checklist acts as a guide for regular maintenance, to keep your machine running smoothly and efficiently.

---

1. Pump or Airend - the unit's compression mechanism.

Rotary Screw Airend - compresses air internally using two helical lobe rotors inside a housing.

- ☐ Check for mechanical seal leakage
- ☐ Check for inlet valve wear
- ☐ Check for excessive bearing "play."
- ☐ Recommended rebuild: 50,000 to 100,000 hrs

2. Engine - the internal combustion engine provides the energy to turn the airend that compresses air.

- ☐ Check engine lubricant level
- ☐ Check air intake filter contamination alarm
- ☐ Clean and replace air intake filter regularly
- ☐ Adjust valve clearance
- ☐ Check and adjust engine fan belt tension
- ☐ Inspect the fuel injectors
- ☐ Recommended engine lubricant change interval: 500 hrs
- ☐ Recommended engine lubricant filter change interval: 500 hrs

3. Chassis - the frame and housing for compressor components.

- ☐ Check tire pressure and inspect for excessive tread wear
- ☐ Tighten wheel bolts if necessary
- ☐ Grease coupling head, joints and tow bar

4. Lubricants - Lubricants in the airend cool, seal, lubricate and remove contaminants.

- ☐ Use proper grade (see manufacturer's manual)
- ☐ Drain existing lubricant before refilling
- ☐ Draw lubricant samples at regular intervals to determine maximum lubricant life
- ☐ Use synthetic lubricant for maximum service life

5. Compressor Filters

Compressor Air Filter - generally located before the airend inlet valve and removes bulk contaminants from the air entering the airend.

- ☐ Use proper micron rating as specified by OEM
- ☐ Check pressure differential and, if necessary, carefully clean according to manufacturer's recommendations
- ☐ Check for worn/damaged seals
- ☐ Check structural integrity
- ☐ Recommended air filter change interval: 500 hrs

Compressor Lubricant Filter and Lubricant Separator - the compressor lubricant filter removes particles from the lubricant circulated in the airend. The lubricant separator removes lubricant from the air before it is discharged.

- ☐ Caution: do not change filters or check fluids while the compressor is running. Spraying fluids such as oil can cause serious burns or injury.
- ☐ Check the lubricant level and change regularly
- ☐ Replace compressor lubricant filter
- ☐ Change the lubricant separator cartilage in the lubricant separator
- ☐ Clean the lubricant cooler
- ☐ Use only genuine replacement parts
- ☐ Recommended lubricant change interval: 1,000 hrs
- ☐ Recommended compressor lubricant filter change interval: 1,000 hrs
- ☐ Recommended lubricant separator cartridge change interval: 2 yrs or 1,000 hrs

6. Cooler - provides cooling for the engine and, in some cases, will provide compressor fluid cooling.

- ☐ Check the engine coolant level
- ☐ Check for visible contamination and clean regularly
- ☐ Check the anti-freeze protection and change coolant, if necessary
- ☐ Inspect hoses and hose clamps for wear

7. Other Components

- ☐ Check the battery's electrolyte and pole connections
- ☐ Check the fitting frame
- ☐ Check hoses for wear and tightness
- ☐ Check all accessible screw connections, pipelines and clamps for wear and tightness
- ☐ Grease the canopy hinges
- ☐ Ensure that pressure and temperature gauges are working