

## Screw Compressor Maintenance

| Interval                      | Action                                                                                                                                                                                                                                                                                               |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Periodically During Operation | 1.Observe all gauge readings. Note any changes from the normal readings, determine the cause and make any necessary repairs. Note: "Normal" is the conditions on a day to day basis in similar operating conditions.                                                                                 |
| Every 10 Hours or Daily*      | 1.Check compressor oil level*<br>2.Check air filter*<br>3.Check for oil and air leaks*<br>4.Check safety circuit switches*                                                                                                                                                                           |
| Every 25 Hours or Monthly*    | 1.Drain Water from compressor oil **<br>2.Check drive belt & tension.                                                                                                                                                                                                                                |
| Every 500 Hours or 6 Months*  | 1.Change compressor oil & filter*<br>2.Check compressor shaft seal for leaks*<br>3.Check air filter piping, hoses & fittings*<br>4.Check compressor supports*<br>5.Install new air filter element(shorter interval may be necessary under dusty operating conditions)*<br>6.Check sump safety valve* |
| Every 1000 Hours or Annually  | 1.Change coalescing element*                                                                                                                                                                                                                                                                         |
| Periodically or as Required   | 1.Inspect and clean air filter element*<br>2.Inspect and replace coalescing element*<br>3.Inspect and clean oil cooler fins*                                                                                                                                                                         |

\*Always shutdown compressor and ensure that air pressure has been relived before performing these maintenance items.

\*\*In regards to draining the water from the compressor oil, there is a simple process to follow.

### **\*\*Draining Water from Air Compressor**

1. Verify the compressor is completely relieved of pressure.
2. Allow compressor to sit overnight to allow water and oil to separate. The water will fall to the bottom.
3. Slightly open drain fitting until solid ATF is being relieved, then retighten.
4. Check compressor oil level and fill to proper level.

The water will typically not build up in the system unless the machine is not being operated properly, or in an extremely humid environment. The heat of the compressor system when running at operating temperatures will remove the water from the oil. If the machine is started and stopped often, then draining the water may be necessity.