SULLAIR COMPRESSOR FLUID ANALYSIS

Compressor fluid is the lifeblood of your compressor. Testing compressor fluid on a regular basis can help you manage compressor maintenance and optimize performance by identifying abnormal wear or contamination.

A fluid analysis can help predict potential problems before a major or unplanned repair occurs — allowing you to avoid unnecessary downtime.

Fluid Analysis Benefits

- Helps extend fluid and bearing life by identifying contaminants such as dirt, water and other process materials
  - Increased contamination indicates action is needed to save the lubricant and avoid unnecessary machine wear
- Predictive maintenance
  - Helps you avoid unscheduled downtime and establish optimal change intervals
  - Accounts for specific environmental conditions impacting fluid
- Helps optimize compressor performance
- Helps you maintain your Sullair warranty
- Fast test results

And, a Sullair Fluid analysis can be done on any type of compressor fluid!

Easy testing process

You or your local Sullair Authorized Distributor can administer the test using
a testing kit which includes:

- Sampling container
- Fluid sample information form
- Prepaid USPS label
  - However, it is recommended to send samples in via FedEx or UPS for easy tracking

Using the oil sampling valve, draw the fluid from the compressor into the sampling container at given intervals. If your compressor is not equipped with an oil sampling valve, you can order one along with your kit from your local Sullair Authorized Distributor. Once all samples have been taken, send in for testing.

Fluid Sampling Best Practices

To maintain your Sullair warranty, fluid samples must be taken every 2000 hours or every 6 months—whichever occurs first.

- Use a Genuine Sullair Fluid Sample Kit
  - North America – P/N 02250138-667
  - Latin America – P/N 02250219-017
- Always take oil samples from the same location on the compressor
  - Avoid taking samples from a fluid filter as this will provide an inaccurate sample and high particulate counts
  - Ideally the sample should be taken after the filter and before the compressor injection
    - If equipped, a fluid sampling valve can help ensure accurate and consistent sampling
      - ⅛″: P/N 02250196-306
      - ¼″: P/N 02250196-305
    - If not equipped with a sampling valve, the sample can be obtained via an oil line or connection after the oil filter
    - For encapsulated units, the sample can be taken from an oil fill port/oil reservoir using a clean handheld vacuum pump or syringe

Additional oil sampling information can be found in your warranty handbook or by contacting your local Sullair representative for more information.

- Samples should be taken at normal operating temperatures. Avoid taking a sample when lubricant is cold
- Make sure the sample area and testing elements are clean
- Always make sure the sample can be obtained safely

Fluid analysis based on original formulation, consumptions and expected life.

Test measures:

- pH levels to look for warning signs of corrosive wear of bearings
- Acid number indicates the remaining useful life of the fluid
- Viscosity to measure the resistance of a fluid to flow at a specific temperature. Higher viscosity can indicate higher operating temperature
- FTIP spectroscopy provides molecular information including additives, fluid breakdown products and external contamination which can help establish optimal change out intervals
- Water levels which can help identify leaks
- Inductively Coupled Plasma (ICP) Spectroscopy measures and quantifies elements associated with wear, contamination and additives