



SULLAIR PREVENTIVE MAINTENANCE PROGRAM

Compressor fluid is the lifeblood of your compressor. Regular oil testing can help you manage compressor maintenance and optimize performance by identifying abnormal wear or contamination.

A fluid analysis program can help predict potential problems before a major or unplanned repair occurs — helping avoid unnecessary downtime and plan service and maintenance actions during the most optimal times.

Unplanned downtime costs US manufacturers an average of \$50 billion annually*

A robust preventive maintenance plan can help:

- Increase ROI tenfold
- Reduce breakdowns by 70%
- Reduce downtime by 35 - 45%
- Reduce maintenance-related costs by 25 - 30%

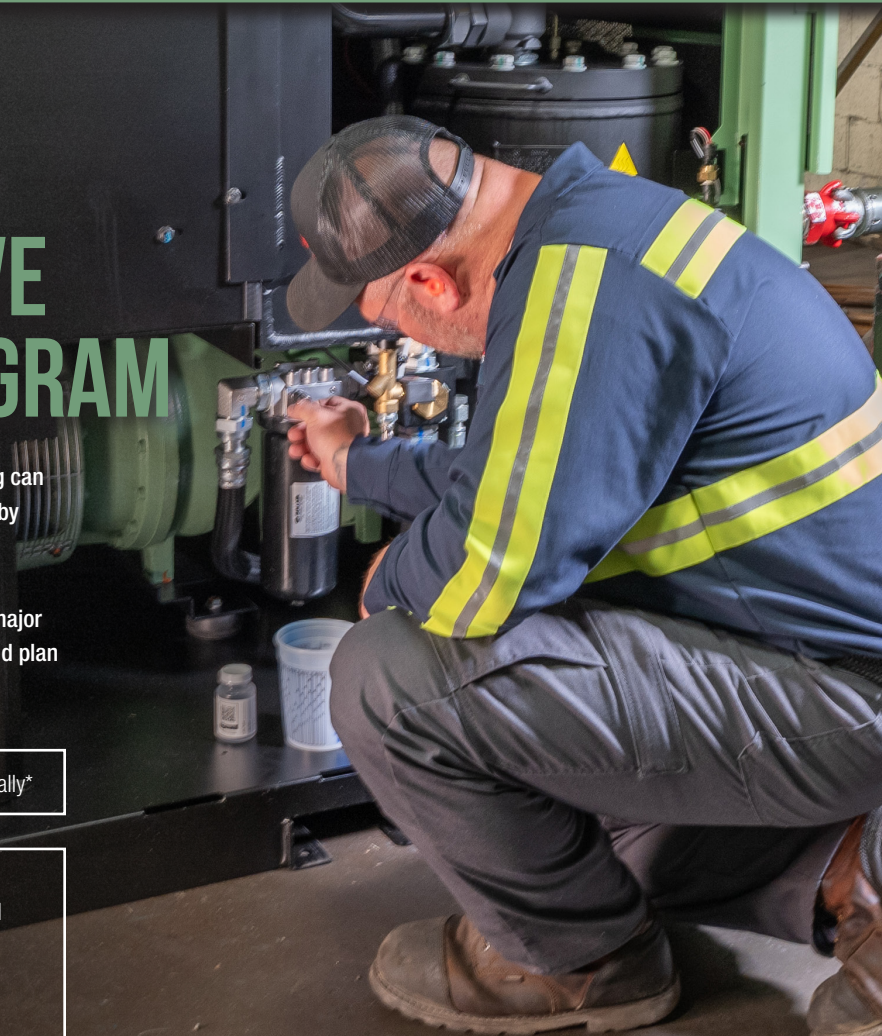
Source: Report from US Department of Energy

Fluid Analysis Benefits

- Fast and detailed analysis and reporting
- Analysis can be done on any type of compressor fluid
- Expert-backed support based on analysis of original formulation, consumption and expected life
- Helps avoid unscheduled downtime and set optimal change intervals
- Results can help you build a service and maintenance schedule tailored to your specific environment—helping optimize compressor performance

Predictive Maintenance via Fluid Analysis

- Help extend fluid and bearing life by identifying contaminants such as dirt, water and other process materials
- Help avoid unnecessary machine wear by acting when fluid results show increased contamination
- Acid number monitoring can show early warning signs of corrosive bearing wear and the fluid's remaining useful life—helping you plan proactively
- Viscosity results help detect indicators of higher operation temperatures
- Detect leaks by reviewing water levels in the fluid



Our team of true compressor experts offer training, maintenance, service and support

Whether you want to start your own predictive maintenance program or work with your local Authorized Sullair Distributor, we can help!

It's easy to get started, simply:

1. Order a fluid sampling kit
2. Register and setup the AssetLink app
3. Take fluid sample
4. Send sample to fluid testing and analysis lab
5. Review, take action and build your preventive maintenance program from the results

Fluid Sampling Kits

You or your local Authorized Sullair Distributor can obtain a fluid sample using a testing kit.


- Individual or multi-pack sampling kits
 - 4-count individual sampling kit (P/N 1004-3176)
 - 12-count multi-pack sampling kit (P/N 1004-0887)
- Easy access to fluid sampling data via the AssetLink app
- Mailing canisters with return shipping label
 - Recommended return instructions for samples:
 - Cushioned polybag or cardboard box (reuse kit box)
 - Use a service with easy shipment tracking

Visit TestOil.com/SullairFluidAnalysis for more program information and fluid sample best practices.

Questions?

Contact Aftermarket@sullair.com or visit Sullair.com/Distributors to find your local distributor.

Maintenance recommendations may fluctuate based on environment and operating conditions



Analysis Report

Machine Condition: **NORMAL**
 Lubricant Condition: **MARGINAL**
 Sullair Corporation

Lab Type: 2MT
 Compressor MFG: SULLAIR
 Compressor Model: LS3D-30-W/C

Serial No.: 903144908
 Asset No.:
 Report: 9/15/2020

Customer Notes:
 The particulate contamination exceeds our limits for a compressor (2128/5). High particulate contamination could be due to sampling or to consider changing sampling location. High particulate contamination will lead to abrasion wear and damage internal components.

For questions concerning this report, contact your local authorized Sullair distributor or Sullair service at 1-888-785-5247.

Date Sampled	9/2/20	9/2/20	9/2/20	9/2/20
Lab No.	Reference	2989311	2993958	2993937
Lab Hours		178620	178620	178620
Compressor Hours		178620	178620	178620
Viscosity @ 40C	29.1	21.0	21.1	20.7
FTIR 24 CT (Reported in %)	Wt-110			
Acid Number	0.0	0.0	0.0	0.0
Moisture @ 40C	0.0	0.0	0.0	0.0
Water Content	0.0	0.0	0.0	0.0

Water %

Water %	Temp (C)	Temp (F)	Temp (C)	Temp (F)
0.0	40	104	40	104

Acid Number


Acid Number	Temp (C)	Temp (F)	Temp (C)	Temp (F)
0.0	40	104	40	104

FTIR 24 CT Method (Oxidation Number) 100-110

Element	Temp (C)	Temp (F)	Temp (C)	Temp (F)
Carbon	0.0	0.0	0.0	0.0
Hydrogen	0.0	0.0	0.0	0.0
Nitrogen	0.0	0.0	0.0	0.0
Oxygen	0.0	0.0	0.0	0.0
Sulfur	0.0	0.0	0.0	0.0
Chlorine	0.0	0.0	0.0	0.0
Phosphorus	0.0	0.0	0.0	0.0
Calcium	0.0	0.0	0.0	0.0
Zinc	0.0	0.0	0.0	0.0
Barium	0.0	0.0	0.0	0.0
Silicon	0.0	0.0	0.0	0.0
Boron	0.0	0.0	0.0	0.0
Sodium	0.0	0.0	0.0	0.0
Potassium	0.0	0.0	0.0	0.0

Particle Count (Reported in particles per ml) ISO 4406-99

ISO CODE	21/28/15	21/20/16	20/18/15
4.4 Micron	20000	19877	8939
5.4 Micron	200	1675	1475
6.4 Micron	320	505	264
7.4 Micron	0	21	11
8.4 Micron	0	1	0



Analysis Report

Machine Condition: **NORMAL**
 Lubricant Condition: **CRITICAL**
 Sullair Corporation

Lab Type: SULLAIR
 Compressor MFG: SULLAIR
 Compressor Model: LS255 250AC

Serial No.: 20181030099
 Asset No.:
 Report: 8/31/2020

Customer Notes:
 The viscosity (51.2 cSt) is higher than expected. The viscosity specification for this lubricant is 39 cSt. Low pH is caused by ingesting water or increased and number indicates antioxidant depletion and is a indicator of lubricant degradation. The machine should be drained, flushed very high and number result. The particle count for this compressor exceeds the limit (2128/5). Check for sources of particulate ingress and level of water contamination (0.815%) is excessive and considered abnormal. Sources of water contamination in compressors are running extended period, expansion from external sources, cooling system leaks.

For questions concerning this report, contact your local authorized Sullair distributor or Sullair service at 1-888-785-5247.

Date Sampled	9/2/20	11/8/20	
Lab No.	Reference	2968858	2986708
Lab Hours		7782	1004
Compressor Hours		7782	1004
Viscosity @ 40C	51.2	34.2	32.2
FTIR 24 CT (Reported in %)	Wt-110		
Acid Number	0.0	0.0	0.0
Moisture @ 40C	0.0	0.0	0.0
Water Content	0.0	0.0	0.0

Water %

Water %	Temp (C)	Temp (F)	Temp (C)	Temp (F)
0.0	40	104	40	104

Acid Number


Acid Number	Temp (C)	Temp (F)	Temp (C)	Temp (F)
0.0	40	104	40	104

FTIR 24 CT Method (Oxidation Number) 100-110

Element	Temp (C)	Temp (F)	Temp (C)	Temp (F)
Carbon	0.0	0.0	0.0	0.0
Hydrogen	0.0	0.0	0.0	0.0
Nitrogen	0.0	0.0	0.0	0.0
Oxygen	0.0	0.0	0.0	0.0
Sulfur	0.0	0.0	0.0	0.0
Chlorine	0.0	0.0	0.0	0.0
Phosphorus	0.0	0.0	0.0	0.0
Calcium	0.0	0.0	0.0	0.0
Zinc	0.0	0.0	0.0	0.0
Barium	0.0	0.0	0.0	0.0
Silicon	0.0	0.0	0.0	0.0
Boron	0.0	0.0	0.0	0.0
Sodium	0.0	0.0	0.0	0.0
Potassium	0.0	0.0	0.0	0.0

Particle Count (Reported in particles per ml) ISO 4406-99

ISO CODE	21/28/15	21/20/16	20/18/15
4.4 Micron	20000	19877	8939
5.4 Micron	200	1675	1475
6.4 Micron	320	505	264
7.4 Micron	0	21	11
8.4 Micron	0	1	0



Analysis Report

Machine Condition: **NORMAL**
 Lubricant Condition: **NORMAL**
 Sullair Corporation

Lab Type: SULLAIR
 Compressor MFG: SULLAIR
 Compressor Model: S509-1/8

Serial No.: 2018022028
 Asset No.:
 Report: 9/29/2020

Customer Notes:
 The results for this sample indicate normal conditions. Please continue scheduled sampling.

For questions concerning this report, contact your local authorized Sullair distributor or Sullair service at 1-888-785-5247.

Date Sampled	9/29/20	6/7/20	5/15/20	10/8/19
Lab No.	Reference	2993763	2993449	2965707
Lab Hours		7109	4879	2484
Compressor Hours		14993	12961	10376
Viscosity @ 40C	7.68	8.31	7.82	8.09
FTIR 24 CT (Reported in %)	Wt-110			
Acid Number	0.0	0.0	0.0	0.0
Moisture @ 40C	0.0	0.0	0.0	0.0
Water Content	0.0	0.0	0.0	0.0

Water %

Water %	Temp (C)	Temp (F)	Temp (C)	Temp (F)
0.0	40	104	40	104

Acid Number

Acid Number	Temp (C)	Temp (F)	Temp (C)	Temp (F)
0.0	40	104	40	104

FTIR 24 CT Method (Oxidation Number) 100-110

Element	Temp (C)	Temp (F)	Temp (C)	Temp (F)
Carbon	0.0	0.0	0.0	0.0
Hydrogen	0.0	0.0	0.0	0.0
Nitrogen	0.0	0.0	0.0	0.0
Oxygen	0.0	0.0	0.0	0.0
Sulfur	0.0	0.0	0.0	0.0
Chlorine	0.0	0.0	0.0	0.0
Phosphorus	0.0	0.0	0.0	0.0
Calcium	0.0	0.0	0.0	0.0
Zinc	0.0	0.0	0.0	0.0
Barium	0.0	0.0	0.0	0.0
Silicon	0.0	0.0	0.0	0.0
Boron	0.0	0.0	0.0	0.0
Sodium	0.0	0.0	0.0	0.0
Potassium	0.0	0.0	0.0	0.0

Particle Count (Reported in particles per ml) ISO 4406-99

ISO CODE	21/28/15	17/16/13	16/15/13	16/15/11
4.4 Micron	2000	1219	2386	437
5.4 Micron	200	889	959	182
6.4 Micron	320	37	69	12
7.4 Micron	0	1	3	0
8.4 Micron	0	0	0	0

* Survey by Plant Engineering