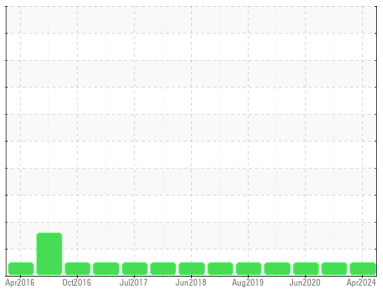
KAESER COMPRESSORS
Built for a lifetime.

# OIL ANALYSIS REPORT

Sample Rating Trend




NORMAL

Machine Id
## KAESER SFC 40S 5507410 (S/N 1023)
Component
**Compressor**
Fluid
**KAESER SIGMA (OEM) S-460 (--- GAL)**

## DIAGNOSIS

**Recommendation**
Resample at the next service interval to monitor.

**Wear**
All component wear rates are normal.

**Contamination**
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

**Fluid Condition**
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **KCPA016719** | KCPA009976 | KC79000 |
| Sample Date | | Client Info | | **16 Apr 2024** | 08 Nov 2023 | 16 Jun 2020 |
| Machine Age | hrs | Client Info | | **54333** | 52334 | 27680 |
| Oil Age | hrs | Client Info | | **2000** | 0 | 3000 |
| Oil Changed | | Client Info | | **Not Changd** | N/A | Not Changd |
| Sample Status | | | | **NORMAL** | NORMAL | NORMAL |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185m | >50 | **<1** | 0 | <1 |
| Chromium | ppm | ASTM D5185m | >10 | **<1** | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >3 | **<1** | 0 | <1 |
| Titanium | ppm | ASTM D5185m | >3 | **<1** | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | **0** | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >10 | **2** | 0 | 0 |
| Lead | ppm | ASTM D5185m | >10 | **1** | 0 | 0 |
| Copper | ppm | ASTM D5185m | >50 | **5** | 5 | 10 |
| Tin | ppm | ASTM D5185m | >10 | **1** | 0 | <1 |
| Antimony | ppm | ASTM D5185m | | **---** | --- | 0 |
| Vanadium | ppm | ASTM D5185m | | **<1** | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | **<1** | 0 | 0 |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185m | | **0** | 0 | 2 |
| Barium | ppm | ASTM D5185m | 90 | **53** | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | **<1** | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | **<1** | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | 90 | **64** | 0 | 1 |
| Calcium | ppm | ASTM D5185m | 2 | **6** | 0 | <1 |
| Phosphorus | ppm | ASTM D5185m | | **4** | <1 | 0 |
| Zinc | ppm | ASTM D5185m | | **<1** | 0 | 0 |
| Sulfur | ppm | ASTM D5185m | | **27504** | 13418 | 14017 |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >25 | **2** | 1 | 1 |
| Sodium | ppm | ASTM D5185m | | **10** | 2 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | **6** | 0 | <1 |
| Water | % | ASTM D6304 | >0.05 | **0.011** | 0.003 | 0.007 |
| ppm Water | ppm | ASTM D6304 | >500 | **112** | 31 | 76.6 |

| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Particles >4µm | | ASTM D7647 | | **9288** | 1799 | 4670 |
| Particles >6µm | | ASTM D7647 | >1300 | **1125** | 426 | 512 |
| Particles >14µm | | ASTM D7647 | >80 | **72** | 16 | 18 |
| Particles >21µm | | ASTM D7647 | >20 | **21** | 7 | 5 |
| Particles >38µm | | ASTM D7647 | >4 | **1** | 1 | 0 |
| Particles >71µm | | ASTM D7647 | >3 | **0** | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >17/13 | **17/13** | 16/11 | 16/11 |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.4 | **0.41** | 0.35 | 0.370 |

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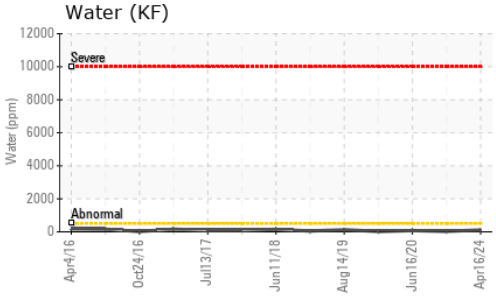
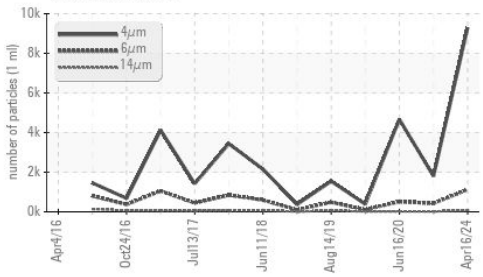
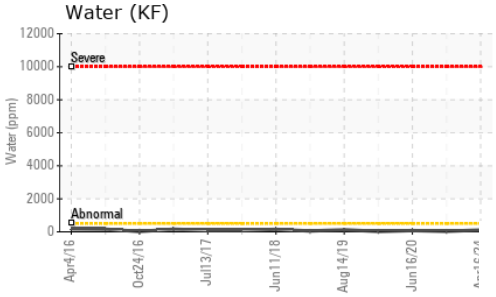
Water (KF)



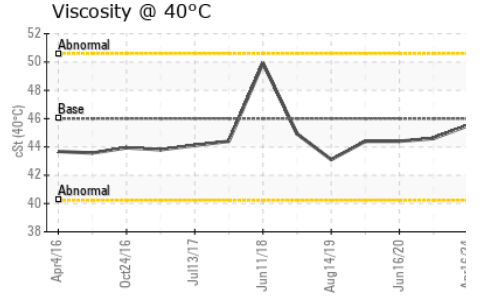

Particle Trend



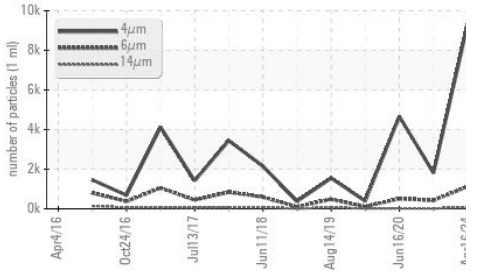

Water (KF)




Viscosity @ 40°C




Particle Trend



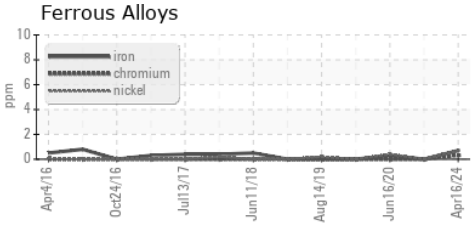

| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| White Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Silt | scalar | *Visual | NONE | **NONE** | NONE | LIGHT |
| Debris | scalar | *Visual | NONE | **LIGHT** | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Appearance | scalar | *Visual | NORML | **NORML** | NORML | NORML |
| Odor | scalar | *Visual | NORML | **NORML** | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.05 | **NEG** | NEG | NEG |
| Free Water | scalar | *Visual | | **NEG** | NEG | NEG |

| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D445 | 46 | **45.5** | 44.6 | 44.4 |

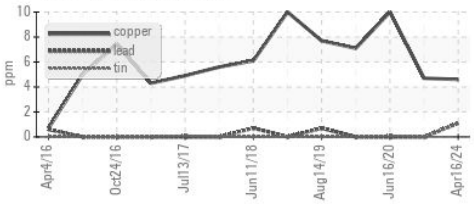
| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | |  | | |
| Bottom | | |  | | |

## GRAPHS

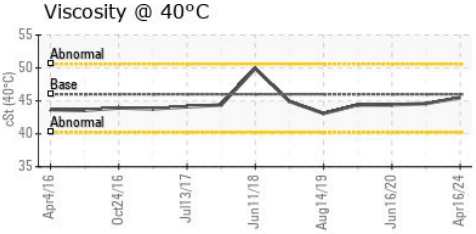
Ferrous Alloys



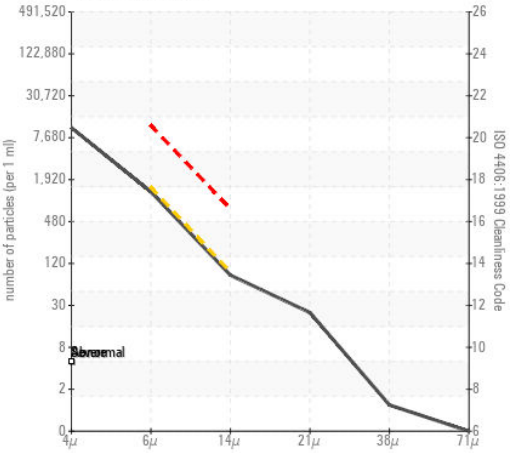

Non-ferrous Metals



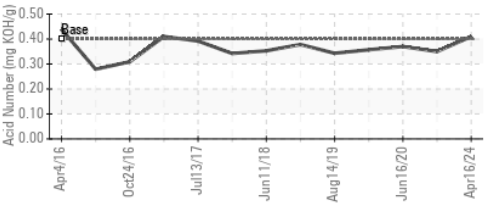

Viscosity @ 40°C




Particle Count




Acid Number




**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : KCPA016719 **Received** : 18 Apr 2024
**Lab Number** : 06153791 **Tested** : 23 Apr 2024
**Unique Number** : 10989214 **Diagnosed** : 23 Apr 2024 - Don Baldridge
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

Certificate L2367

*To discuss this sample report, contact Customer Service at 1-800-237-1369.*
** - Denotes test methods that are outside of the ISO 17025 scope of accreditation.*
*Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)*

**ROCHLING ADVENT**
999 RIDGEWAY AVE
ROCHESTER, NY
US 14615
Contact:
T:
F:

Report Id: ROC999ROC [WUSCAR] 06153791 (Generated: 04/23/2024 16:24:59) Rev: 1
Contact/Location: ? ? - ROC999ROC