KAESER COMPRESSORS
Built for a lifetime.

# OIL ANALYSIS REPORT

| | |
|---|---|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Machine Id
## KAESER SK 26 1816974 (S/N 1180)
Component
## Compressor
Fluid
## KAESER SIGMA (OEM) M-460 (--- GAL)

## RECOMMENDATION

Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

## CONTAMINATION

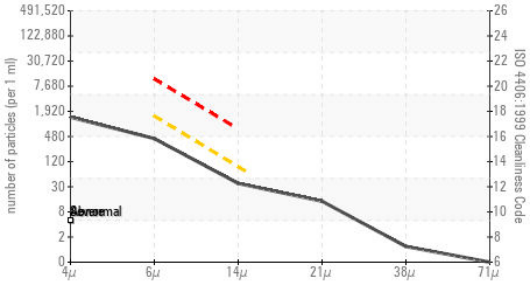
The amount and size of particulates present in the system is acceptable. There is no indication of any contamination in the component.

## FLUID CONDITION

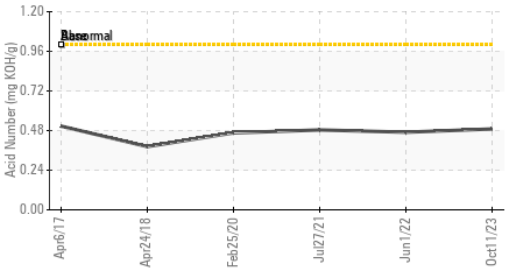
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | KCPA007817 | KCP51202 | KCP33216 |
| Sample Date | | Client Info | | 11 Oct 2023 | 01 Jun 2022 | 27 Jul 2021 |
| Machine Age | hrs | Client Info | | 42141 | 40466 | 39565 |
| Oil Age | hrs | Client Info | | 0 | 901 | 2052 |
| Filter Age | hrs | Client Info | | 0 | 901 | 2052 |
| Oil Changed | | Client Info | | N/A | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | ABNORMAL | NORMAL |
| Iron | ppm | ASTM D5185m | >50 | 0 | <1 | 0 |
| Chromium | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 0 | <1 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | 0 | 1 | 0 |
| Lead | ppm | ASTM D5185m | >10 | 0 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >50 | 3 | 5 | 4 |
| Tin | ppm | ASTM D5185m | >10 | 0 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | LIGHT | NONE | MODER |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silicon | ppm | ASTM D5185m | >25 | <1 | <1 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 5 | 0 |
| Water | % | ASTM D6304 | >0.05 | 0.008 | 0.012 | 0.008 |
| ppm Water | ppm | ASTM D6304 | >500 | 80.3 | 125.8 | 81.3 |
| Particles >4µm | | ASTM D7647 | | 1220 | --- | --- |
| Particles >6µm | | ASTM D7647 | >1300 | 376 | --- | --- |
| Particles >14µm | | ASTM D7647 | >80 | 32 | --- | --- |
| Particles >21µm | | ASTM D7647 | >20 | 12 | --- | --- |
| Particles >38µm | | ASTM D7647 | >4 | 1 | --- | --- |
| Particles >71µm | | ASTM D7647 | >3 | 0 | --- | --- |
| Oil Cleanliness | | ISO 4406 (c) | >--/17/13 | 17/16/12 | --- | --- |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | ▲ MODER | 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 |
| Sodium | ppm | ASTM D5185m | | <1 | 24 | 0 |
| Boron | ppm | ASTM D5185m | 0 | 0 | 0 | 25 |
| Barium | ppm | ASTM D5185m | 90 | 0 | 33 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | 100 | 0 | 56 | 0 |
| Calcium | ppm | ASTM D5185m | 0 | 0 | 3 | 0 |
| Phosphorus | ppm | ASTM D5185m | 0 | 0 | <1 | <1 |
| Zinc | ppm | ASTM D5185m | 0 | 0 | 5 | 0 |
| Sulfur | ppm | ASTM D5185m | 23500 | 18709 | 17551 | 17045 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 1.0 | 0.49 | 0.47 | 0.484 |
| Visc @ 40°C | cSt | ASTM D445 | 45 | 49.7 | 48.7 | 50.1 |

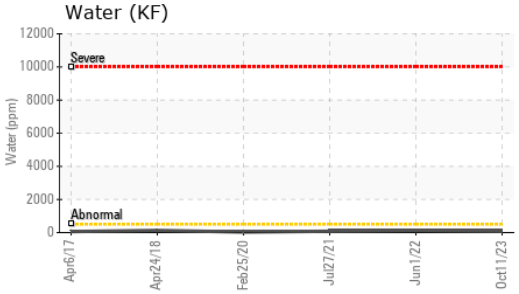
Particle Count



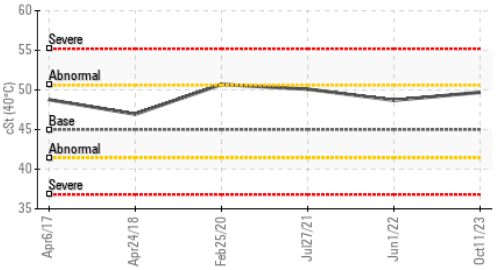

Acid Number



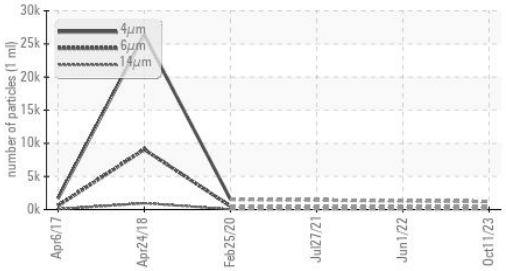

Water (KF)



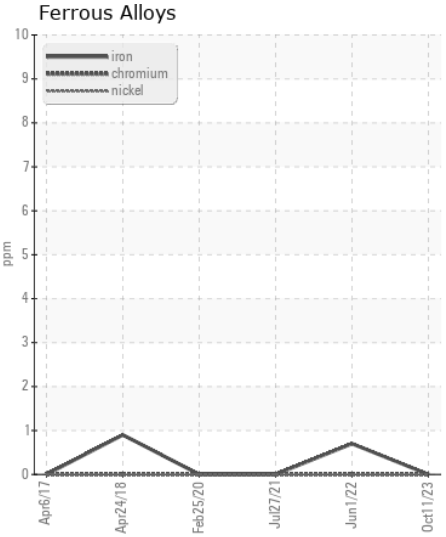

Viscosity @ 40°C



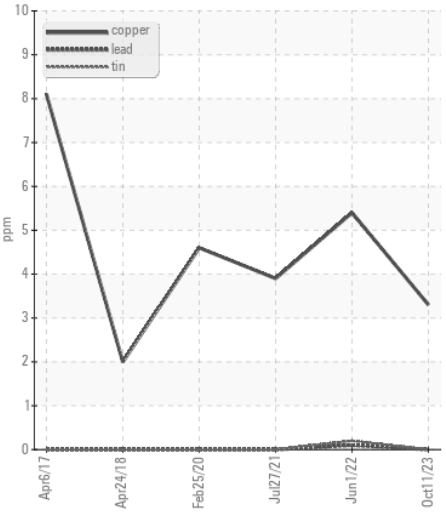

Particle Trend



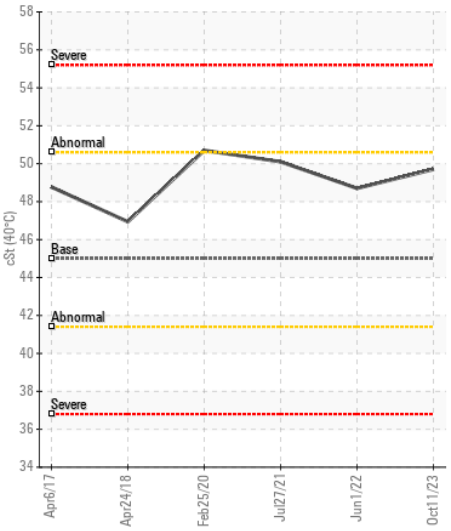

Ferrous Alloys



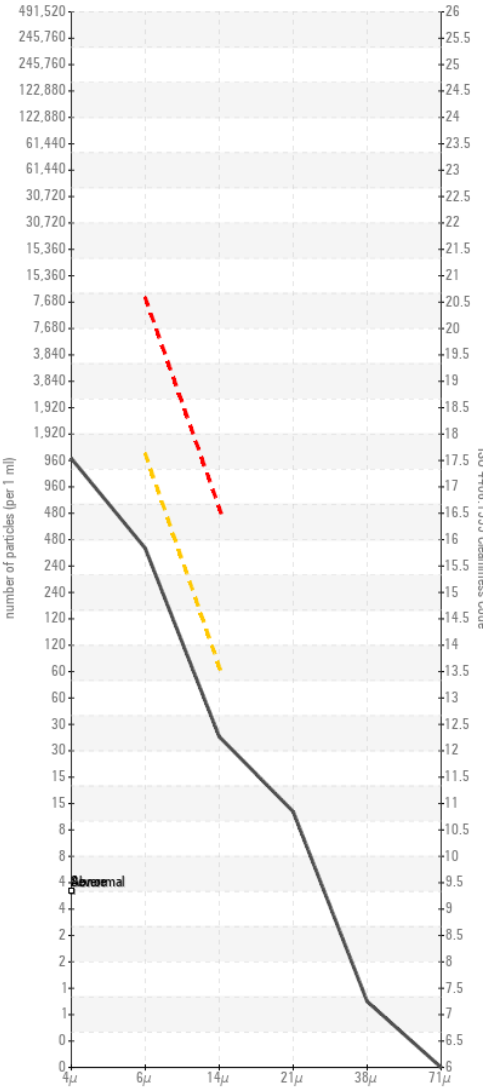

Non-ferrous Metals



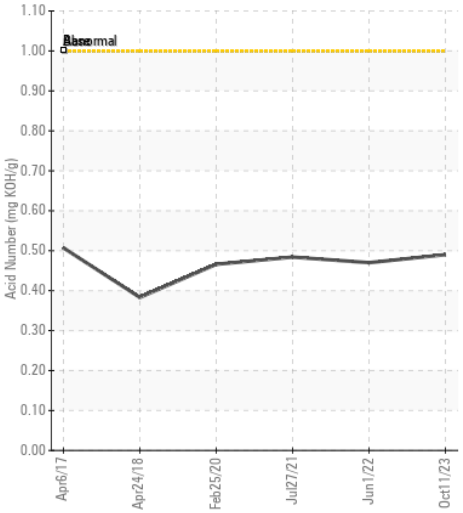

Viscosity @ 40°C




Particle Count




Acid Number




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : KCPA007817 **Recieved** : 18 Oct 2023
**Lab Number** : 05982390 **Diagnosed** : 20 Oct 2023
**Unique Number** : 10699685 **Diagnostician** : Angela Borella
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

*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)*

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