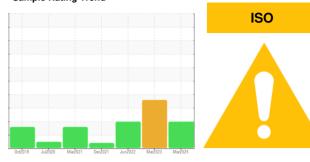


OIL ANALYSIS REPORT

SAMPLE INFORMATION method

Sample Rating Trend

limit/base



current

history1

historv2

Machine Id

KAESER SX 5 4478681 (S/N 1095)

Component Compressor Fluid

KAESER SIGMA (OEM) S-460 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

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

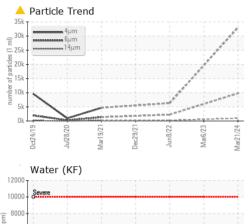
| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
|-------------------------------------|----------|--------------|------------|--------------------|-------------------------|-------------|
| Sample Number | | Client Info | | KCPA016198 | KCPA000207 | KCP49555 |
| Sample Date | | Client Info | | 21 Mar 2024 | 06 Mar 2023 | 08 Jun 2022 |
| Machine Age | hrs | Client Info | | 26506 | 25170 | 24174 |
| Oil Age | hrs | Client Info | | 1329 | 0 | 122 |
| Oil Changed | | Client Info | | Changed | N/A | Changed |
| Sample Status | | | | ABNORMAL | ABNORMAL | ABNORMAL |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >50 | 0 | 2 | 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 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >10 | 0 | <1 | 0 |
| Lead | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | | 19 | 16 | 4 |
| Tin | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Antimony | ppm | ASTM D5185m | | | | |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| | PPm | | 12 | - | - | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | 90 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | 90 | 0 | 7 | 14 |
| Calcium | ppm | ASTM D5185m | 2 | 0 | 0 | <1 |
| Phosphorus | ppm | ASTM D5185m | | 0 | 0 | 6 |
| Zinc | ppm | ASTM D5185m | | 0 | 62 | 53 |
| Sulfur | ppm | ASTM D5185m | | 17844 | 19443 | 21008 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 0 | <1 | <1 |
| Sodium | ppm | ASTM D5185m | | 0 | 1 | 6 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 0 | <1 |
| Water | % | ASTM D6304 | >0.05 | 0.007 | ▲ 0.080 | 0.008 |
| ppm Water | ppm | ASTM D6304 | >500 | 78 | ▲ 800 | 88.3 |
| FLUID CLEANLIN | ESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | | 32994 | | 6308 |
| Particles >6µm | | ASTM D7647 | >1300 | <u> </u> | | <u> </u> |
| Particles >14µm | | ASTM D7647 | >80 | <mark>人</mark> 958 | | 2 18 |
| Particles >21µm | | ASTM D7647 | >20 | <u> </u> | | <u> </u> |
| Particles >38µm | | ASTM D7647 | >4 | A 23 | | 4 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >/17/13 | A 22/20/17 | | ▲ 20/18/15 |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) 5:10:10) Rev: 1 | mg KOH/g | ASTM D8045 | | 0.32 | 0.31 : Service Manao | 0.27 |

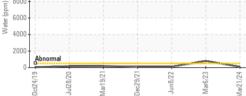
Report Id: THERICTX [WUSCAR] 06144267 (Generated: 04/12/2024 06:10:10) Rev: 1

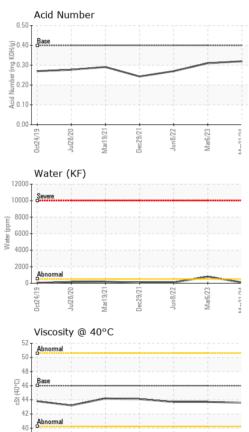
Contact/Location: Service Manager - THERICTX

COMPRESSOR Built for a lifetime.

OIL ANALYSIS REPORT





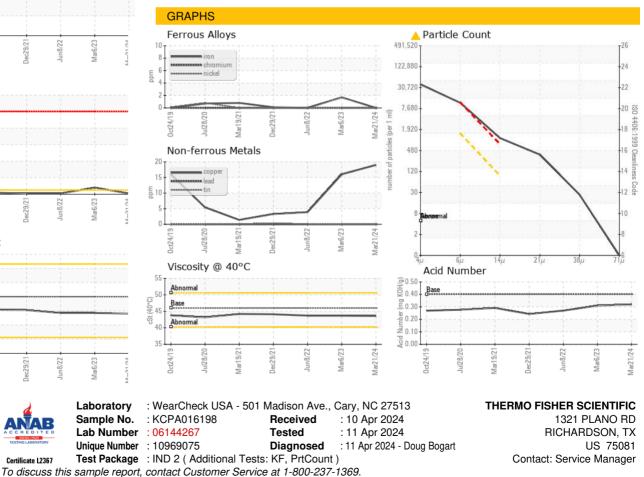


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| VISUAL | | method | limit/base | current | history1 | history2 |
|------------------|--------|-----------|------------|---------|--------------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | LIGHT | 🔺 LIGHT | 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 | ▲ 0.2% | NEG |
| Free Water | scalar | *Visual | | NEG | ▲ 1.0 | NEG |
| FLUID PROPERT | IES | method | limit/base | current | history1 | history2 |
| Visc @ 40°C | cSt | ASTM D445 | 46 | 43.6 | 43.7 | 43.7 |
| SAMPLE IMAGES | 6 | method | limit/base | current | history1 | history2 |
| Color | | | | | | |
| Bottom | | | | | | |



* - 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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Certificate 12367

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Contact/Location: Service Manager - THERICTX

T:

F: