

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 55557383 (S/N 2644) Component

Compressor Fluid KAESER SIGMA (OEM) M-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.

| | | Ma | y2023 | Oct2023 Feb203 | 24 | |
|------------------|----------|--------------|------------|----------------|-----------------|--------------|
| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | KCPA008546 | KCPA007130 | KCP52306 |
| Sample Date | | Client Info | | 19 Feb 2024 | 26 Oct 2023 | 11 May 2023 |
| Machine Age | hrs | Client Info | | 41002 | 0 | 36637 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | Changed |
| Sample Status | | | | NORMAL | ABNORMAL | ABNORMAL |
| 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 | 0 |
| Titanium | ppm | ASTM D5185m | >3 | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Lead | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >50 | 8 | 6 | 5 |
| Tin | ppm | ASTM D5185m | >10 | <1 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | 90 | 5 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | <1 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | 100 | 0 | 11 | 6 |
| Calcium | ppm | ASTM D5185m | 0 | 0 | <1 | 0 |
| Phosphorus | ppm | ASTM D5185m | 0 | 0 | <1 | <1 |
| Zinc | ppm | ASTM D5185m | 0 | 7 | 6 | 6 |
| Sulfur | ppm | ASTM D5185m | 23500 | 21216 | 18181 | 23697 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | <1 | <1 | 0 |
| Sodium | ppm | ASTM D5185m | | 0 | 4 | 1 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| Water | % | ASTM D6304 | >0.05 | 0.011 | 0.009 | 0.013 |
| ppm Water | ppm | ASTM D6304 | >500 | 114 | 90.6 | 130.7 |
| FLUID CLEANLIN | ESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | | 1931 | 16179 | 9170 |
| Particles >6µm | | ASTM D7647 | >1300 | 446 | 4 941 | 2 545 |
| Particles >14µm | | ASTM D7647 | >80 | 33 | A 289 | 1 71 |
| Particles >21µm | | ASTM D7647 | >20 | 6 | <u> </u> | <u> </u> |
| Particles >38µm | | ASTM D7647 | >4 | 0 | 1 | 0 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >/17/13 | 18/16/12 | 1 /19/15 | ▲ 20/19/15 |
| FLUID DEGRADA | | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 1.0 | 0.53 | 0.42 | 0.48 |
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OIL ANALYSIS REPORT

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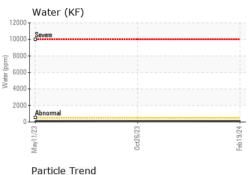
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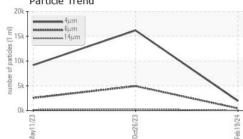
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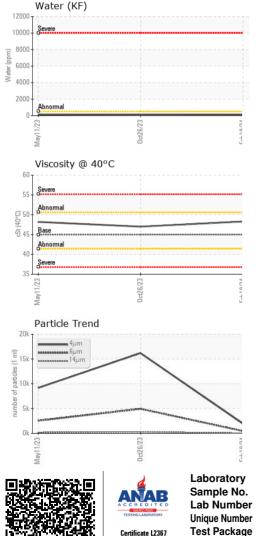
NORML

>0.05

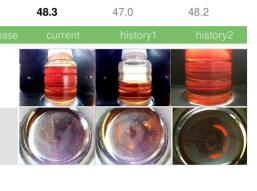
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| Uct26/23 + | L.4.10.04 | 2 0 | |
|--|-----------|------------------------------------|----------|
| | | May11/23 | 0ct26/23 |
| ~ | | Viscosity @ | 40°C |
| | | 55 - Severe 55 - Abnormal | |
| | | to 50 Base to 45 Abnormal | |
| and the Real Property lies in the Real Prope | | 40 Severe | |



NONE

NONE

NONE

NONE

LIGHT

NONE

NORML

NORML

NEG

NEG

LIGHT

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NORML

NORML

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NONE

NORML

NORML

NEG

NEG

Bottom

Color

White Metal

Yellow Metal

Precipitate

Silt

Debris

Odor

Sand/Dirt

Appearance

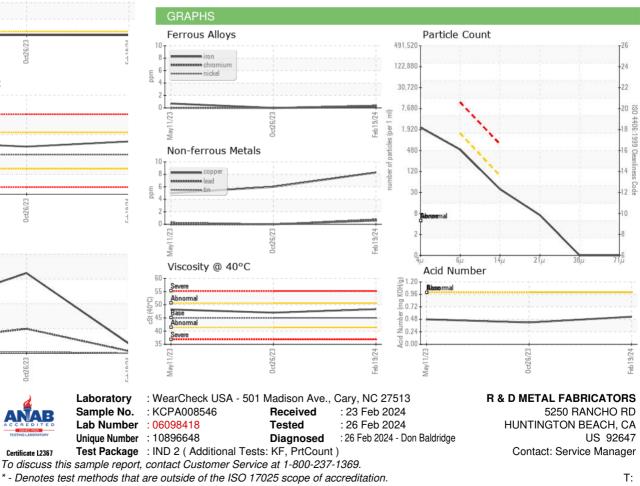
Free Water

Visc @ 40°C

Emulsified Water

FLUID PROPERTIES

SAMPLE IMAGES



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Contact/Location: Service Manager - RDMHUN