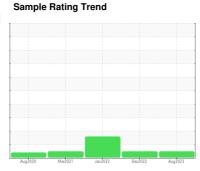


OIL ANALYSIS REPORT

Area [127909] 7239207 (S/N 1010)

Compressor

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





Recommendation

Resample at the next service interval to monitor.

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.

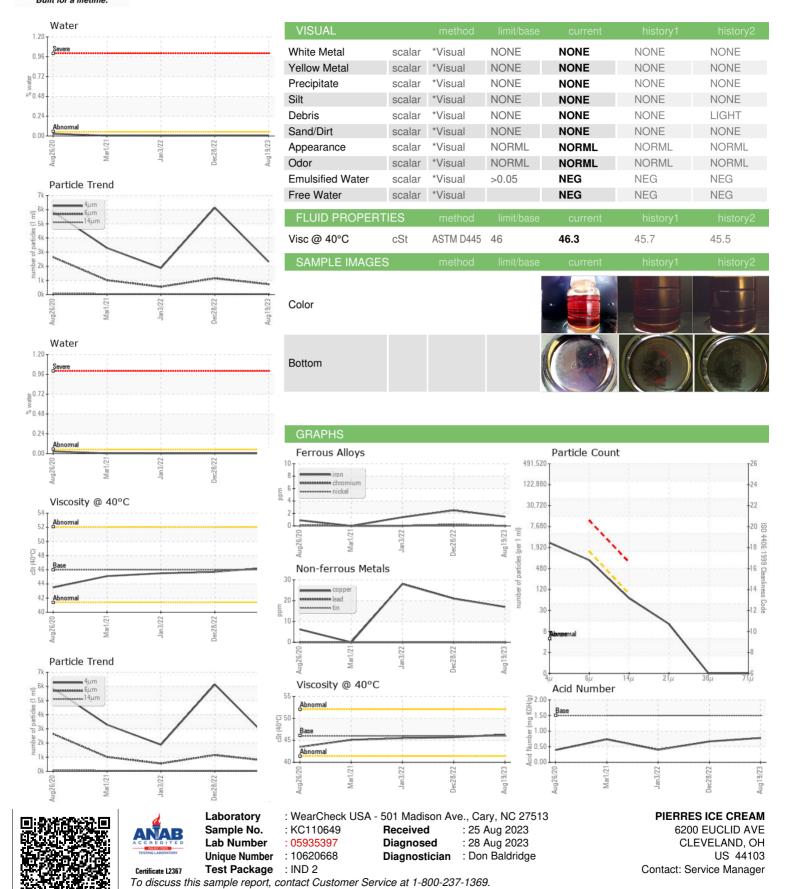
Fluid Condition

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

| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
|------------------|----------|--------------|------------|-------------|-------------|-------------|
| Sample Number | | Client Info | | KC110649 | KC107661 | KC73028 |
| Sample Date | | Client Info | | 19 Aug 2023 | 28 Dec 2022 | 03 Jan 2022 |
| Machine Age | hrs | Client Info | | 21744 | 16451 | 10991 |
| Oil Age | hrs | Client Info | | 5293 | 5400 | 7178 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | ATTENTION |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >50 | 2 | 2 | 1 |
| Chromium | ppm | ASTM D5185m | >10 | 0 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | >3 | 0 | <1 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 0 | <1 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | 2 | 3 | <u> 8</u> |
| Lead | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >50 | 17 | 21 | <u>^</u> 28 |
| Tin | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Antimony | ppm | ASTM D5185m | | | | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| | pp | | | | | - |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Calcium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Phosphorus | ppm | ASTM D5185m | 500 | 302 | 238 | 94 |
| Zinc | ppm | ASTM D5185m | | 343 | 348 | 114 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 0 | <1 | <1 |
| Sodium | ppm | ASTM D5185m | | 1 | <1 | 2 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 0 | 2 |
| Water | % | ASTM D6304 | | 0.003 | 0.004 | 0.003 |
| ppm Water | ppm | ASTM D6304 | >500 | 26.4 | 40.1 | 36.1 |
| FLUID CLEANLIN | ESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | | 2317 | 6140 | 1875 |
| Particles >6µm | | ASTM D7647 | >1300 | 732 | 1148 | 548 |
| Particles >14µm | | ASTM D7647 | >80 | 60 | 61 | 55 |
| Particles >21µm | | ASTM D7647 | >20 | 11 | 12 | 15 |
| Particles >38μm | | ASTM D7647 | >4 | 0 | 1 | 1 |
| Particles >71μm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >/17/13 | 18/17/13 | 20/17/13 | 16/13 |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 1.5 | 0.78 | 0.67 | 0.400 |



OIL ANALYSIS REPORT



* - 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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