

OIL ANALYSIS REPORT



ISO



7184026 (S/N 1679)

Component

Compressor

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The 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 acceptable for the time in service.

| | | Jun202 | 1 Apr2022 | Mar2023 M | ar2024 | |
|-------------------|------------|--------------|------------|-------------------|-------------------|----------------|
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | KC06133315 | KC101358 | KC103696 |
| Sample Date | | Client Info | | 01 Mar 2024 | 24 Mar 2023 | 13 Apr 2022 |
| Machine Age | hrs | Client Info | | 31920 | 23921 | 15655 |
| Oil Age | hrs | Client Info | | 0 | 8266 | 7275 |
| Oil Changed | | Client Info | | N/A | Changed | Changed |
| Sample Status | | | | ABNORMAL | ABNORMAL | ABNORMAL |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >50 | 0 | 0 | <1 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >3 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | >3 | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | 3 | <1 | <1 |
| Lead | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >50 | 24 | 13 | 14 |
| Tin | ppm | ASTM D5185m | >10 | <1 | 0 | <1 |
| Antimony | ppm | ASTM D5185m | | | | |
| 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 | 0 |
| Barium | ppm | ASTM D5185m | 90 | <1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | 90 | 21 | 13 | 17 |
| Calcium | ppm | ASTM D5185m | 2 | 3 | 0 | 0 |
| Phosphorus | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Zinc | ppm | ASTM D5185m | | 29 | 22 | 37 |
| CONTAMINANTS | ; | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 0 | 0 | 0 |
| Sodium | ppm | ASTM D5185m | | 22 | 13 | 24 |
| Potassium | ppm | ASTM D5185m | >20 | 10 | 7 | 12 |
| Water | % | ASTM D6304 | >0.05 | 0.019 | 0.014 | 0.026 |
| ppm Water | ppm | ASTM D6304 | >500 | 190 | 148.3 | 267.9 |
| FLUID CLEANLIN | IESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | | 5502 | 17847 | 31896 |
| Particles >6µm | | ASTM D7647 | >1300 | <u>^</u> 2705 | △ 6779 | <u>▲</u> 14926 |
| Particles >14µm | | ASTM D7647 | >80 | 443 | 4 991 | △ 3787 |
| Particles >21µm | | ASTM D7647 | >20 | 132 | △ 371 | <u></u> 1410 |
| Particles >38µm | | ASTM D7647 | >4 | <u>^</u> 5 | <u>^</u> 24 | 1 90 |
| Particles >71μm | | ASTM D7647 | >3 | 1 | 1 | △ 13 |
| Oil Cleanliness | | ISO 4406 (c) | >/17/13 | <u>^</u> 20/19/16 | <u>△</u> 21/20/17 | <u>△</u> 21/19 |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| Acid Number (ANI) | ma 1/011/a | ACTM DODAE | | 0.25 | 0.04 | 0.20 |

Acid Number (AN)

mg KOH/g ASTM D8045 0.4

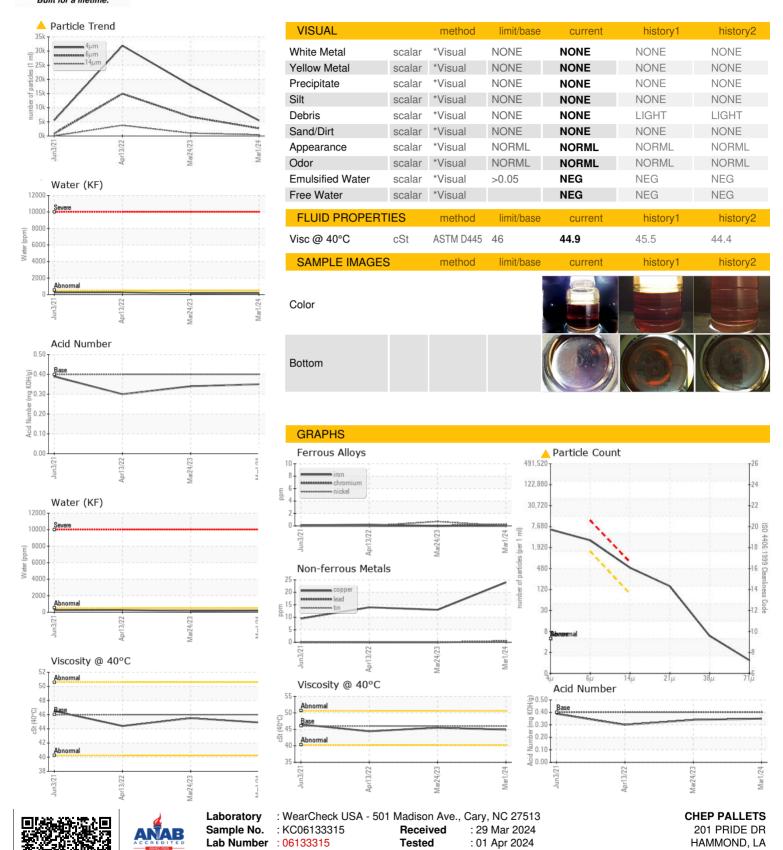
0.34

0.35

0.30



OIL ANALYSIS REPORT



Diagnosed

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

: 01 Apr 2024 - Doug Bogart

Unique Number: 10952780

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.

Test Package : IND 2

US 70401

T: F:

Contact: Service Manager