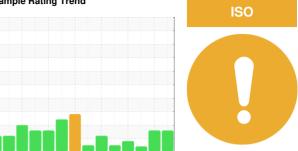


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id KAESER CSD-75 5587739 (S/N 1228)

Compressor

KAESER SIGMA (OEM) M-460 (--- QTS)

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 moderate amount of particulates present in the oil.

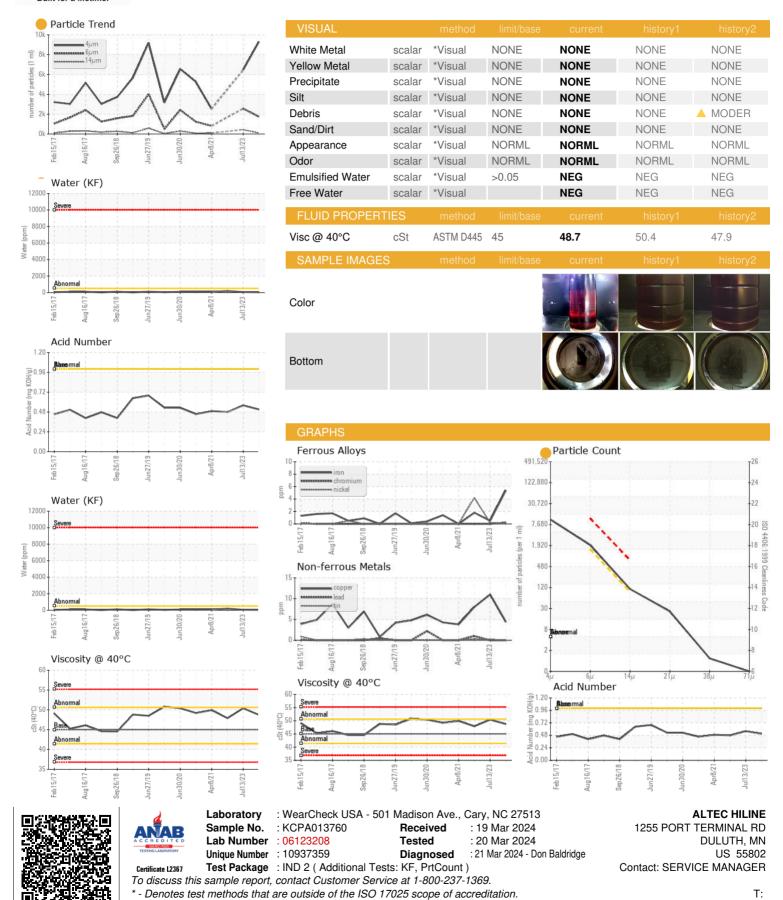
Fluid Condition

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

| | | Feb 2017 A | ag2017 Sep2018 Jul | n2019 Jun2020 Apr2021 | Jul2023 | |
|----------------------------|--------|--------------|--------------------|-----------------------|------------------------|-------------|
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | KCPA013760 | KCPA004052 | KCP47081 |
| Sample Date | | Client Info | | 11 Mar 2024 | 13 Jul 2023 | 09 Nov 2022 |
| Machine Age | hrs | Client Info | | 47288 | 45400 | 43420 |
| Oil Age | hrs | Client Info | | 1888 | 0 | 2179 |
| Oil Changed | | Client Info | | Changed | N/A | Not Changd |
| Sample Status | | | | ATTENTION | ABNORMAL | ABNORMAL |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >50 | 5 | <1 | 2 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >3 | 0 | <1 | 4 |
| Titanium | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >10 | 2 | 0 | 1 |
| Lead | ppm | ASTM D5185m | >10 | 0 | 0 | 1 |
| Copper | ppm | ASTM D5185m | >50 | 4 | 11 | 8 |
| Tin | ppm | ASTM D5185m | >10 | 0 | <1 | <1 |
| Antimony | ppm | ASTM D5185m | | | | |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | 90 | 0 | 0 | 8 |
| Molybdenum | ppm | ASTM D5185m | 0 | 3 | 0 | <1 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | 100 | 4 | 0 | 12 |
| Calcium | ppm | ASTM D5185m | 0 | 0 | 0 | 4 |
| Phosphorus | ppm | ASTM D5185m | 0 | 0 | 0 | 5 |
| Zinc | ppm | ASTM D5185m | 0 | 0 | 0 | 1 |
| Sulfur | ppm | ASTM D5185m | 23500 | 21516 | 22996 | 22500 |
| CONTAMINANTS | 3 | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 0 | <1 | <1 |
| Sodium | ppm | ASTM D5185m | | 2 | 2 | 3 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 2 | 3 |
| Water | % | ASTM D6304 | | 0.004 | 0.006 | 0.019 |
| ppm Water | ppm | ASTM D6304 | >500 | 42 | 62.8 | 194.8 |
| FLUID CLEANLIN | IESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | | 9320 | 6467 | |
| Particles >6µm | | ASTM D7647 | >1300 | <u> </u> | <u>\$\times\$ 2565</u> | |
| Particles >14μm | | ASTM D7647 | >80 | 96 | <u>427</u> | |
| Particles >21µm | | ASTM D7647 | >20 | 22 | <u>139</u> | |
| Particles >38µm | | ASTM D7647 | >4 | 1 | 4 | |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | |
| Oil Cleanliness | | ISO 4406 (c) | >/17/13 | 0 20/18/14 | <u>△</u> 20/19/16 | |
| FLUID DEGRADA | NOITA | method | limit/base | current | history1 | history2 |
| A stal Nicosala a v. (ANI) | 1/01// | AOTH B0045 | 1.0 | 0.54 | 0.50 | 0.40 |



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

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