

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id KAESER SK20 4443074 (S/N 1150)

Compressor

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

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.

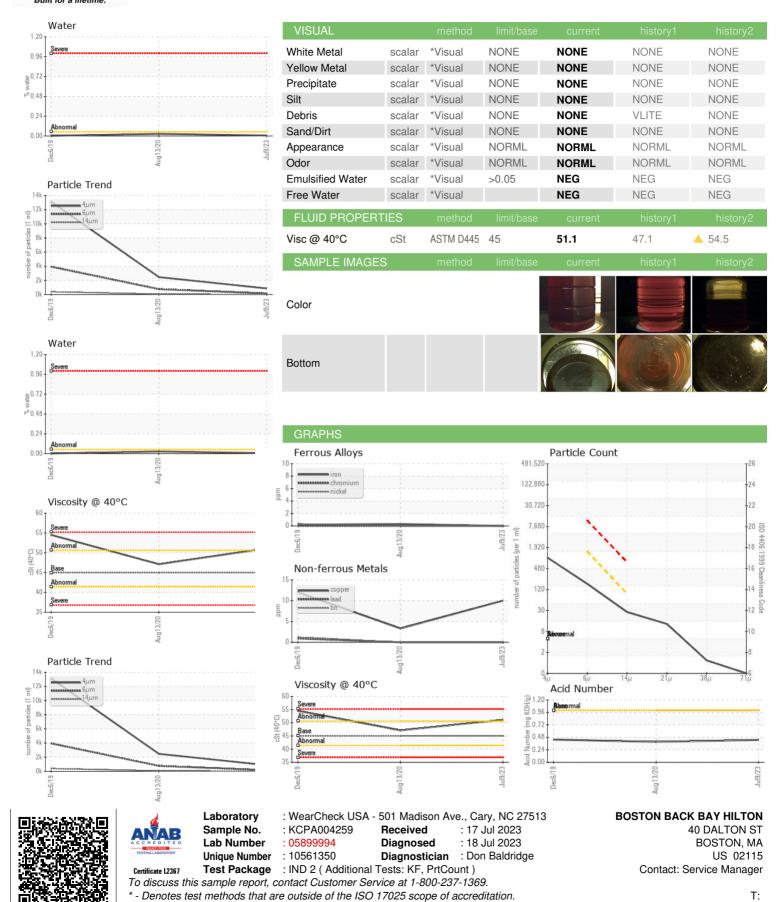
Fluid Condition

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

| | | Dec | 2019 | Aug2020 Jul202 | 3 | |
|-----------------|--------|--------------|------------|----------------|-------------|----------------|
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | KCPA004259 | KCP10485 | KCP23808 |
| Sample Date | | Client Info | | 09 Jul 2023 | 13 Aug 2020 | 06 Dec 2019 |
| Machine Age | hrs | Client Info | | 92916 | 70550 | 64848 |
| Oil Age | hrs | Client Info | | 0 | 10000 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | ABNORMAL |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >50 | 0 | <1 | <1 |
| Chromium | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >3 | 0 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Lead | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185m | >50 | 10 | 3 | 12 |
| Tin | ppm | ASTM D5185m | >10 | 0 | 0 | 1 |
| Antimony | ppm | ASTM D5185m | | | 0 | 5 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | 0 | 13 | 0 |
| Barium | ppm | ASTM D5185m | 90 | 0 | 2 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | 0 | <1 |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | 1 |
| Magnesium | ppm | ASTM D5185m | 100 | 0 | 17 | 0 |
| Calcium | ppm | ASTM D5185m | 0 | 0 | 0 | 0 |
| Phosphorus | ppm | ASTM D5185m | 0 | <1 | 2 | 0 |
| Zinc | ppm | ASTM D5185m | 0 | 0 | 26 | 4 |
| Sulfur | ppm | ASTM D5185m | 23500 | 20623 | 16795 | 3819 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | <1 | <1 | 0 |
| Sodium | ppm | ASTM D5185m | | <1 | 7 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| Water | % | ASTM D6304 | >0.05 | 0.006 | 0.026 | 0.003 |
| ppm Water | ppm | ASTM D6304 | >500 | 62.4 | 264.8 | 39.6 |
| FLUID CLEANLIN | IESS | method | limit/base | current | history1 | history2 |
| Particles >4μm | | ASTM D7647 | | 862 | 2468 | 13115 |
| Particles >6µm | | ASTM D7647 | >1300 | 154 | 761 | △ 3940 |
| Particles >14μm | | ASTM D7647 | >80 | 24 | 57 | ▲ 387 |
| Particles >21µm | | ASTM D7647 | >20 | 11 | 12 | ▲ 116 |
| Particles >38μm | | ASTM D7647 | >4 | 1 | 0 | <u>^</u> 7 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >/17/13 | 17/14/12 | 17/13 | △ 19/16 |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| | | | | | | |



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

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