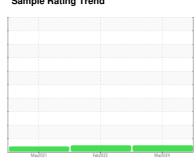


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



KAESER 5778041

Component

Compressor

KAESER SIGMA (OEM) M-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.

| | | | y2021 | Feb 2022 Mar 202 | 4 | |
|-----------------|--------|--------------|------------|------------------|-------------|-------------|
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | KCPA014999 | KCP40862 | KCP33531 |
| Sample Date | | Client Info | | 12 Mar 2024 | 02 Feb 2022 | 17 May 2021 |
| Machine Age | hrs | Client Info | | 22685 | 21381 | 21158 |
| Oil Age | hrs | Client Info | | 0 | 0 | 21158 |
| Oil Changed | | Client Info | | Not Changd | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | ABNORMAL |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >50 | 3 | <1 | 0 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >10 | <1 | <1 | 0 |
| Lead | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >50 | 1 | 9 | 28 |
| Tin | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Antimony | ppm | ASTM D5185m | | | 0 | 0 |
| 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 | <1 | <1 |
| Barium | ppm | ASTM D5185m | 90 | 62 | 45 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 3 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | 100 | 79 | 79 | 0 |
| Calcium | ppm | ASTM D5185m | 0 | 3 | 4 | 0 |
| Phosphorus | ppm | ASTM D5185m | 0 | 1 | 4 | 1 |
| Zinc | ppm | ASTM D5185m | 0 | 0 | 2 | 0 |
| Sulfur | ppm | ASTM D5185m | 23500 | 21739 | 16982 | 9651 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | 0 | 2 | 0 |
| Sodium | ppm | ASTM D5185m | | 11 | 10 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | <1 | <1 |
| Water | % | ASTM D6304 | >0.05 | 0.017 | 0.016 | 0.006 |
| ppm Water | ppm | ASTM D6304 | >500 | 179 | 160.5 | 66.6 |
| FLUID CLEANLIN | IESS | method | limit/base | current | history1 | history2 |
| Particles >4μm | | ASTM D7647 | | 1966 | 2456 | |
| Particles >6µm | | ASTM D7647 | >1300 | 454 | 504 | |
| Particles >14μm | | ASTM D7647 | >80 | 30 | 35 | |
| Particles >21µm | | ASTM D7647 | >20 | 6 | 7 | |
| Particles >38µm | | ASTM D7647 | >4 | 1 | 0 | |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | |
| Oil Cleanliness | | ISO 4406 (c) | >/17/13 | 18/16/12 | 16/12 | |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| | | | | | | |

0.286



OIL ANALYSIS REPORT

