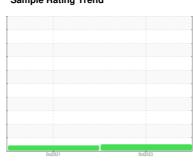


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



KAESER 1174328

Component

Compressor

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

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.

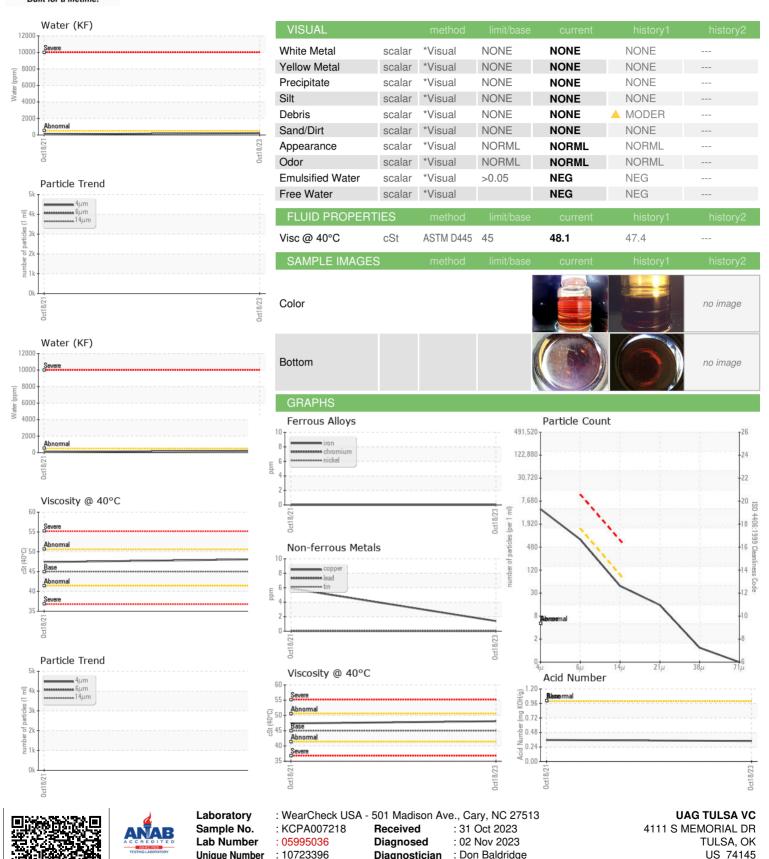
Fluid Condition

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

| | | | 0et2021 | 0ct2023 | | |
|------------------|--------|---------------|------------|-------------|-------------|----------|
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | KCPA007218 | KCP38925 | |
| Sample Number | | Client Info | | 18 Oct 2023 | 18 Oct 2021 | |
| Machine Age | hrs | Client Info | | 87718 | 80254 | |
| Oil Age | hrs | Client Info | | 0 | 7466 | |
| Oil Changed | 1113 | Client Info | | N/A | Changed | |
| Sample Status | | Oliciti IIIIo | | NORMAL | ABNORMAL | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| | | | | | | • |
| Iron Chromium | ppm | ASTM D5185m | >50 >10 | 0 | 0 | |
| Nickel | ppm | ASTM D5185m | >3 | 0 | 0 | |
| Titanium | ppm | ASTM D5185m | | ں <1 | 0 | |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | |
| | ppm | | | | | |
| Aluminum | ppm | ASTM D5185m | | <1 | <1 | |
| Lead | ppm | ASTM D5185m | >10 | 0 | 0 | |
| Copper | ppm | ASTM D5185m | | 1 | 6 | |
| Tin | ppm | ASTM D5185m | >10 | 0 | 0 | |
| Antimony | ppm | ASTM D5185m | | | 0 | |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 0 | 0 | <1 | |
| Barium | ppm | ASTM D5185m | 90 | 0 | 0 | |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | <1 | |
| Manganese | ppm | ASTM D5185m | | <1 | 0 | |
| Magnesium | ppm | ASTM D5185m | 100 | 45 | 2 | |
| Calcium | ppm | ASTM D5185m | 0 | 0 | 0 | |
| Phosphorus | ppm | ASTM D5185m | 0 | 3 | 95 | |
| Zinc | ppm | ASTM D5185m | 0 | 13 | 7 | |
| Sulfur | ppm | ASTM D5185m | 23500 | 18490 | 13545 | |
| CONTAMINANTS | ; | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >25 | <1 | <1 | |
| Sodium | ppm | ASTM D5185m | | 20 | 2 | |
| Potassium | ppm | ASTM D5185m | >20 | 5 | 0 | |
| Water | % | ASTM D6304 | >0.05 | 0.022 | 0.009 | |
| ppm Water | ppm | ASTM D6304 | >500 | 227.7 | 97.4 | |
| FLUID CLEANLIN | IESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | | 4155 | | |
| Particles >6µm | | ASTM D7647 | >1300 | 670 | | |
| Particles >14μm | | ASTM D7647 | >80 | 41 | | |
| Particles >21µm | | ASTM D7647 | >20 | 13 | | |
| Particles >38µm | | ASTM D7647 | >4 | 1 | | |
| Particles >71μm | | ASTM D7647 | >3 | 0 | | |
| Oil Cleanliness | | ISO 4406 (c) | >/17/13 | 19/17/13 | | |
| FLUID DEGRADA | TION _ | method | limit/base | current | history1 | history2 |
| | | | | | | |



OIL ANALYSIS REPORT





Unique Number

: 10723396

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 (Additional Tests: KF, PrtCount)

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

T: F:

Contact: Service Manager dellman@billknightauto.com