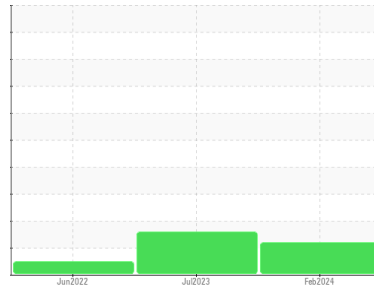




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id

KAESER 7336182

Component

Compressor

Fluid

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 suitable for further service.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | | KCP50430 | KCPA004108 | KCP51133 |
| Sample Date | Client Info | | | 09 Feb 2024 | 24 Jul 2023 | 20 Jun 2022 |
| Machine Age | hrs | Client Info | | 9754 | 8300 | 5260 |
| Oil Age | hrs | Client Info | | 1454 | 0 | 3400 |
| Oil Changed | | Client Info | | Not Chngd | N/A | Changed |
| Sample Status | | | | ABNORMAL | ABNORMAL | NORMAL |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|-------------|-----|-------------|------------|---------|----------|----------|
| Iron | ppm | ASTM D5185m | >50 | <1 | 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 | <1 | <1 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | 2 | <1 | <1 |
| Lead | ppm | ASTM D5185m | >10 | 0 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >50 | 1 | <1 | <1 |
| Tin | ppm | ASTM D5185m | >10 | <1 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |

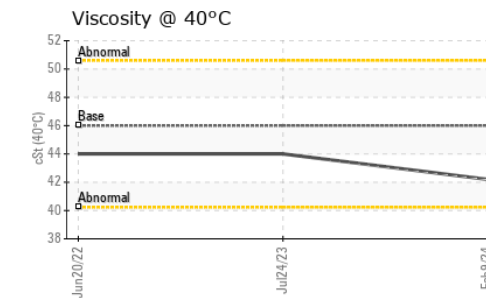
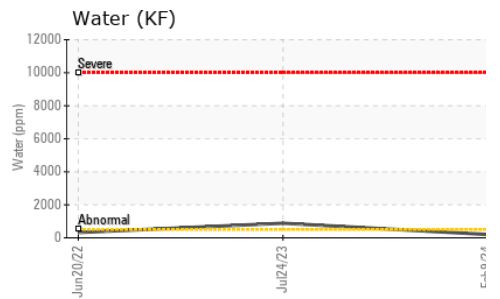
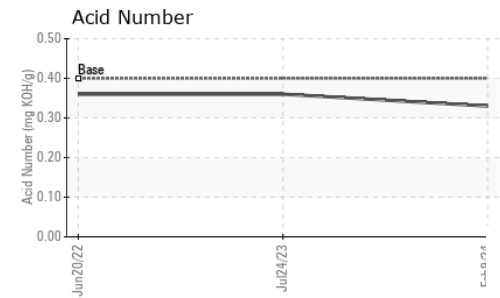
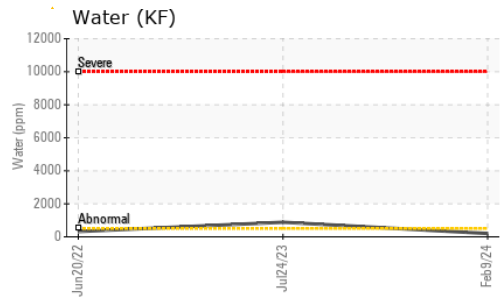
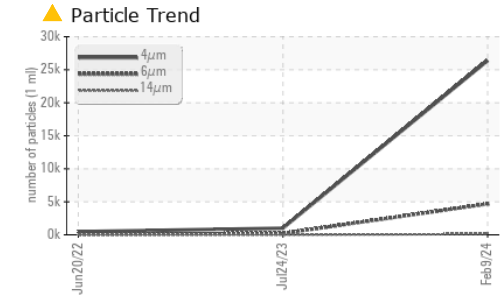
| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|-------------|------------|---------|----------|----------|
| Boron | ppm | ASTM D5185m | | 0 | 0 | 2 |
| Barium | ppm | ASTM D5185m | 90 | 57 | 16 | 32 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | 90 | 80 | 90 | 85 |
| Calcium | ppm | ASTM D5185m | 2 | 7 | 0 | 4 |
| Phosphorus | ppm | ASTM D5185m | | 0 | 0 | 6 |
| Zinc | ppm | ASTM D5185m | | 2 | 0 | 4 |
| Sulfur | ppm | ASTM D5185m | | 20407 | 21303 | 20967 |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|---------|----------|----------|
| Silicon | ppm | ASTM D5185m | >25 | 0 | <1 | <1 |
| Sodium | ppm | ASTM D5185m | | 17 | 22 | 16 |
| Potassium | ppm | ASTM D5185m | >20 | 5 | 6 | 5 |
| Water | % | ASTM D6304 | >0.05 | 0.020 | ▲ 0.088 | 0.032 |
| ppm Water | ppm | ASTM D6304 | >500 | 202 | ▲ 883.2 | 320.6 |

| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|-------------------|--|--------------|------------|------------|----------|----------|
| Particles >4µm | | ASTM D7647 | | 26380 | 1011 | 486 |
| Particles >6µm | | ASTM D7647 | >1300 | ▲ 4675 | 207 | 102 |
| Particles >14µm | | ASTM D7647 | >80 | ● 110 | 12 | 14 |
| Particles >21µm | | ASTM D7647 | >20 | 10 | 3 | 4 |
| Particles >38µm | | ASTM D7647 | >4 | 0 | 0 | 1 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >--/17/13 | ▲ 22/19/14 | 17/15/11 | 16/14/11 |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|-------------------|----------|------------|------------|---------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.4 | 0.33 | 0.36 | 0.36 |

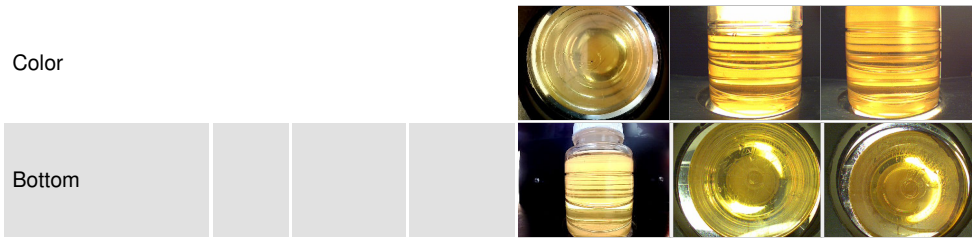
OIL ANALYSIS REPORT



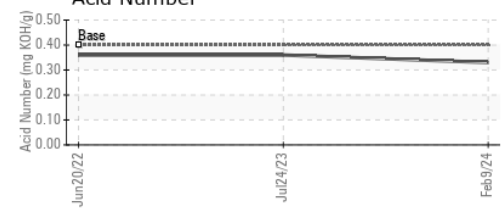
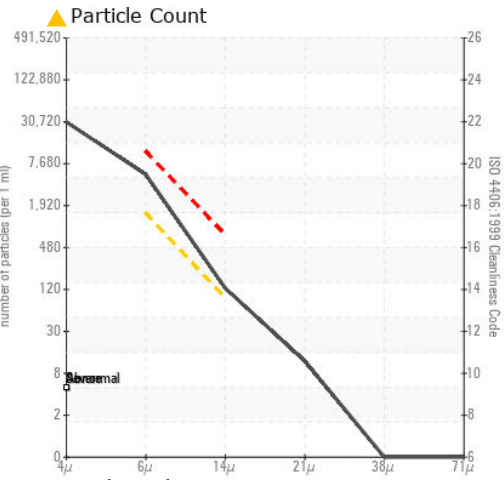
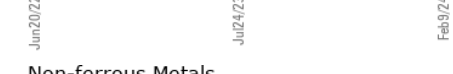
| PARAMETER | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.05 | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 46 | 42.2 | 44.0 |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCP50430 **Received** : 08 Apr 2024
Lab Number : 06142258 **Tested** : 11 Apr 2024
Unique Number : 10967066 **Diagnosed** : 11 Apr 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

AMAZON
 280 BRIDGEPORT BLVD
 NEWNAN, GA
 US 30263
 Contact: A. RIOMATH
 ariomath@mazon.com

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