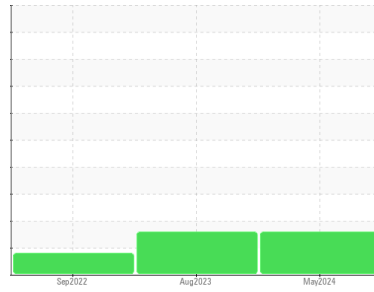




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
KAESER 8043399 (S/N 1068)
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) S-460 (--- GAL)

DIAGNOSIS

▲ Recommendation

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 | | | KCPA018483 | KCP48020 | KCP50089 |
| Sample Date | Client Info | | | 17 May 2024 | 08 Aug 2023 | 30 Sep 2022 |
| Machine Age | hrs | Client Info | | 11120 | 7197 | 2625 |
| Oil Age | hrs | Client Info | | 0 | 0 | 2625 |
| Oil Changed | Client Info | | | Not Chngd | Changed | Changed |
| Sample Status | | | | ABNORMAL | ABNORMAL | ATTENTION |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m | >50 | 0 | 0 | <1 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | >3 | <1 | <1 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | 2 | <1 | <1 |
| Lead | ppm | ASTM D5185m | >10 | <1 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >50 | 7 | 17 | 9 |
| Tin | ppm | ASTM D5185m | >10 | <1 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Cadmium | ppm | ASTM D5185m | | <1 | 0 | 0 |

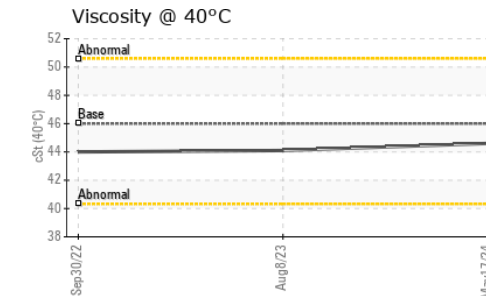
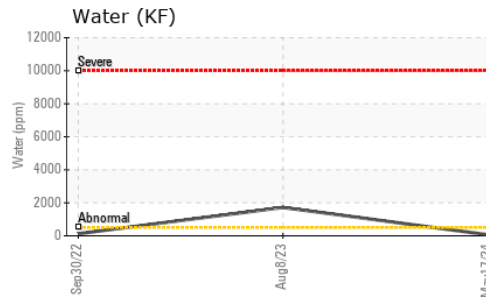
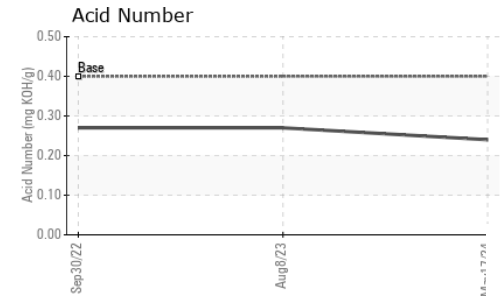
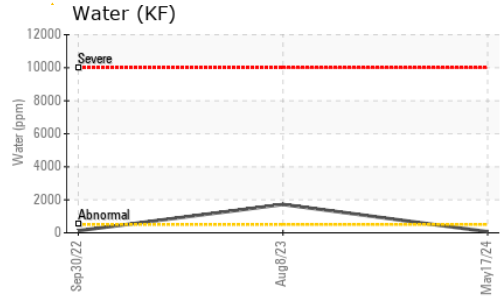
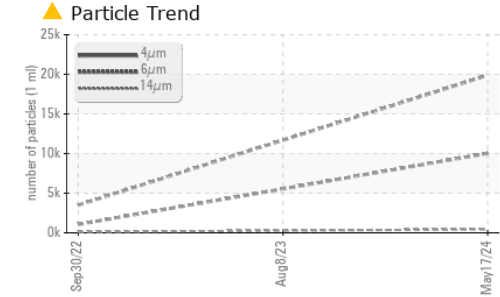
| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | 90 | <1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | 1 |
| Magnesium | ppm | ASTM D5185m | 90 | 10 | 9 | 30 |
| Calcium | ppm | ASTM D5185m | 2 | <1 | 0 | 0 |
| Phosphorus | ppm | ASTM D5185m | | 7 | 6 | 11 |
| Zinc | ppm | ASTM D5185m | | 6 | 9 | 2 |
| Sulfur | ppm | ASTM D5185m | | 14232 | 20109 | 20010 |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m | >25 | <1 | <1 | <1 |
| Sodium | ppm | ASTM D5185m | | 4 | 4 | 15 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 2 | 0 |
| Water | % | ASTM D6304 | >0.05 | 0.006 | ▲ 0.172 | 0.012 |
| ppm Water | ppm | ASTM D6304 | >500 | 67 | ▲ 1720 | 129.1 |

| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|-------------------|--|--------------|------------|-------------------|----------|------------|
| Particles >4µm | | ASTM D7647 | | 19882 | --- | 3499 |
| Particles >6µm | | ASTM D7647 | >1300 | ▲ 10030 | --- | 1056 |
| Particles >14µm | | ASTM D7647 | >80 | ▲ 437 | --- | ● 102 |
| Particles >21µm | | ASTM D7647 | >20 | ▲ 44 | --- | 20 |
| Particles >38µm | | ASTM D7647 | >4 | 1 | --- | 2 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | --- | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >--/17/13 | ▲ 21/21/16 | --- | ● 19/17/14 |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.4 | 0.24 | 0.27 | 0.27 |

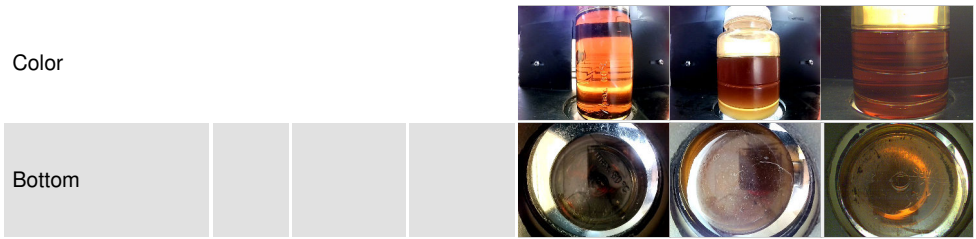
OIL ANALYSIS REPORT



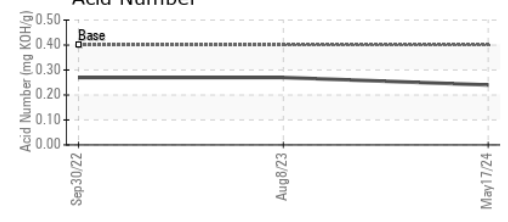
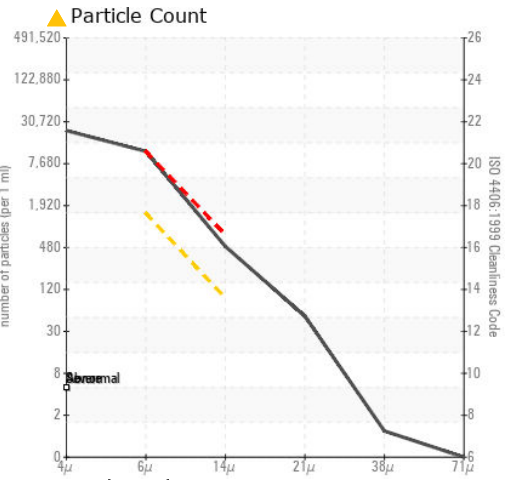
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | MODER |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | LIGHT |
| 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 | 0.2% |
| Free Water | scalar | *Visual | | NEG | NEG |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 46 | 44.6 | 44.1 |

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



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA018483
Lab Number : 06195440
Unique Number : 11057563
Test Package : IND 2 (Additional Tests: KF, PrtCount)
Received : 30 May 2024
Tested : 31 May 2024
Diagnosed : 31 May 2024 - Angela Borella

THE STORE DECOR CO
 5050 BOYD BLVD
 ROWLETT, TX
 US 75088
 Contact: Service Manager

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)