



PROBLEM SUMMARY

Sample Rating Trend



ISO



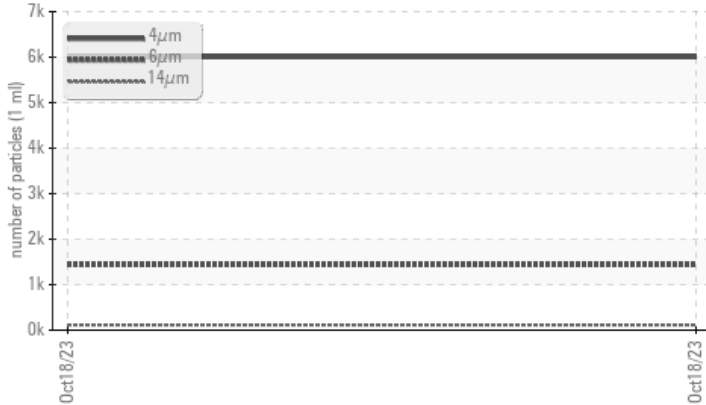
Machine Id
KAESER 7406196

Component
Compressor

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

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

| Sample Status | | | ATTENTION | --- | --- |
|-----------------|--------------|-----------|-------------------|-----|-----|
| Particles >6µm | ASTM D7647 | >1300 | ▲ 1437 | --- | --- |
| Particles >14µm | ASTM D7647 | >80 | ▲ 113 | --- | --- |
| Particles >21µm | ASTM D7647 | >20 | ▲ 32 | --- | --- |
| Oil Cleanliness | ISO 4406 (c) | >--/17/13 | ▲ 20/18/14 | --- | --- |

Customer Id: AMASANCAL
Sample No.: KCPA007843
Lab Number: 05994359
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
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angela.borella@wearcheckusa.com

To change component or sample information:
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customerservice@wearcheck.com

RECOMMENDED ACTIONS

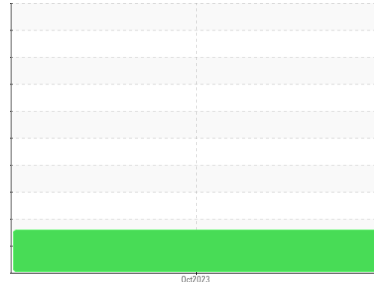
There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
KAESER 7406196

Component
Compressor
Fluid
KAESER SIGMA (OEM) M-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 moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|----------|----------|
| Sample Number | Client Info | | | KCPA007843 | --- | --- |
| Sample Date | Client Info | | | 18 Oct 2023 | --- | --- |
| Machine Age | hrs | Client Info | | 4991 | --- | --- |
| Oil Age | hrs | Client Info | | 0 | --- | --- |
| Oil Changed | Client Info | | | N/A | --- | --- |
| Sample Status | | | | ATTENTION | --- | --- |

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

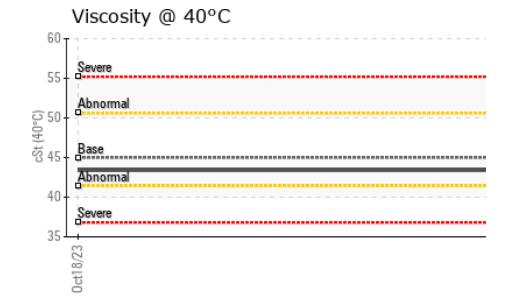
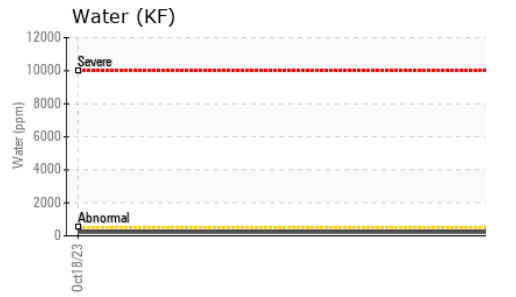
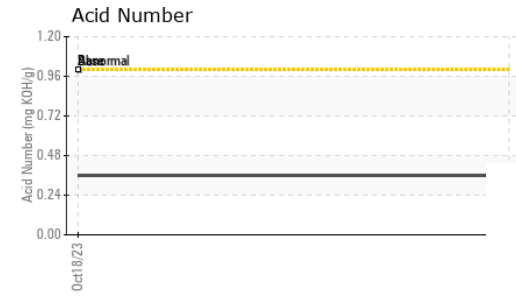
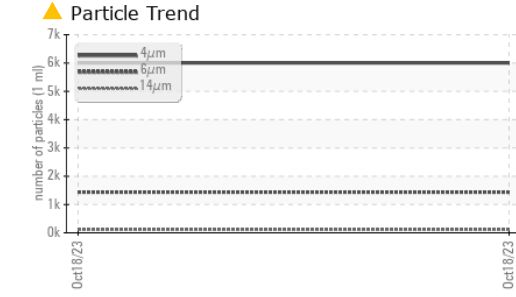
| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | 0 | 0 | --- | --- |
| Barium | ppm | ASTM D5185m | 90 | 20 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | 0 | <1 | --- | --- |
| Manganese | ppm | ASTM D5185m | | <1 | --- | --- |
| Magnesium | ppm | ASTM D5185m | 100 | 48 | --- | --- |
| Calcium | ppm | ASTM D5185m | 0 | <1 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 0 | 34 | --- | --- |
| Zinc | ppm | ASTM D5185m | 0 | 35 | --- | --- |
| Sulfur | ppm | ASTM D5185m | 23500 | 25089 | --- | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m | >25 | 2 | --- | --- |
| Sodium | ppm | ASTM D5185m | | 18 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 3 | --- | --- |
| Water | % | ASTM D6304 | >0.05 | 0.022 | --- | --- |
| ppm Water | ppm | ASTM D6304 | >500 | 225.6 | --- | --- |

| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|-------------------|--|--------------|------------|-------------------|----------|----------|
| Particles >4µm | | ASTM D7647 | | 6002 | --- | --- |
| Particles >6µm | | ASTM D7647 | >1300 | ▲ 1437 | --- | --- |
| Particles >14µm | | ASTM D7647 | >80 | ▲ 113 | --- | --- |
| Particles >21µm | | ASTM D7647 | >20 | ▲ 32 | --- | --- |
| Particles >38µm | | ASTM D7647 | >4 | 1 | --- | --- |
| Particles >71µm | | ASTM D7647 | >3 | 0 | --- | --- |
| Oil Cleanliness | | ISO 4406 (c) | >--/17/13 | ▲ 20/18/14 | --- | --- |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 1.0 | 0.36 | --- | --- |

OIL ANALYSIS REPORT

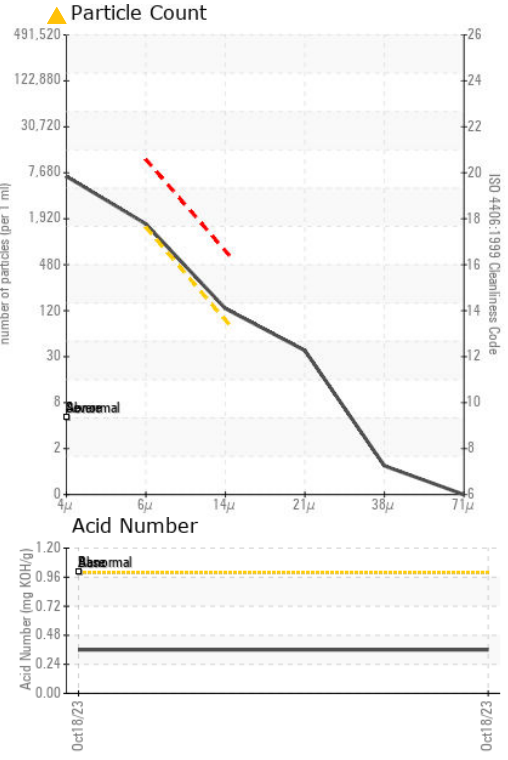
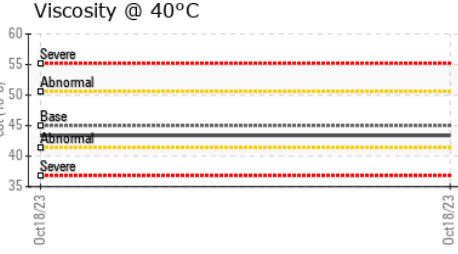
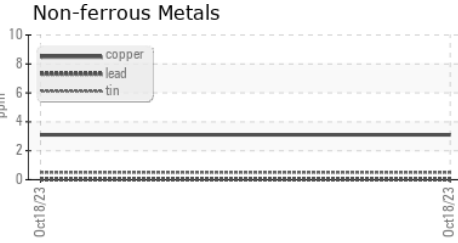
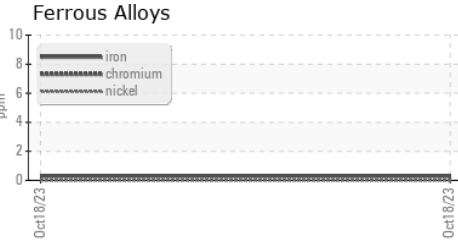


| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE | ---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

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 45 | 43.4 | --- |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
| Color | | | | no image | no image |
| Bottom | | | | no image | no image |

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA007843 **Received** : 31 Oct 2023
Lab Number : 05994359 **Diagnosed** : 01 Nov 2023
Unique Number : 10722719 **Diagnostician** : Angela Borella
Test Package : IND 2 (Additional Tests: KF, PrtCount)

AMAZON AIRE FREIGHT
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 US 92346
 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)