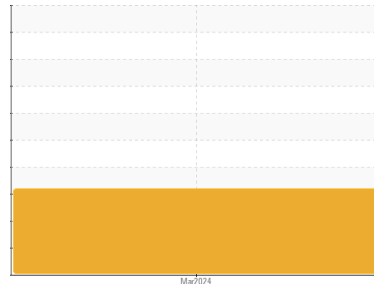




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id

KAESER 6107668

Component

Compressor

Fluid

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

DIAGNOSIS

▲ Recommendation

We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

Wear

All component wear rates are normal.

▲ Contamination

There is a high amount of particulates present in the oil. There is a light concentration of water 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 | | KCP09351 | --- | --- |
| Sample Date | Client Info | | 22 Mar 2024 | --- | --- |
| Machine Age | hrs | Client Info | 20253 | --- | --- |
| Oil Age | hrs | Client Info | 0 | --- | --- |
| Oil Changed | Client Info | | Not Chngd | --- | --- |
| Sample Status | | | ABNORMAL | --- | --- |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|-----------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >50 | 0 | --- | --- |
| Chromium | ppm | ASTM D5185m >10 | 0 | --- | --- |
| Nickel | ppm | ASTM D5185m >3 | 0 | --- | --- |
| Titanium | ppm | ASTM D5185m >3 | 0 | --- | --- |
| Silver | ppm | ASTM D5185m >2 | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m >10 | 0 | --- | --- |
| Lead | ppm | ASTM D5185m >10 | 0 | --- | --- |
| Copper | ppm | ASTM D5185m >50 | <1 | --- | --- |
| Tin | ppm | ASTM D5185m >10 | 0 | --- | --- |
| 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 | 2 | --- | --- |
| Molybdenum | ppm | ASTM D5185m 0 | 0 | --- | --- |
| Manganese | ppm | ASTM D5185m | 0 | --- | --- |
| Magnesium | ppm | ASTM D5185m 100 | 13 | --- | --- |
| Calcium | ppm | ASTM D5185m 0 | <1 | --- | --- |
| Phosphorus | ppm | ASTM D5185m 0 | 0 | --- | --- |
| Zinc | ppm | ASTM D5185m 0 | 0 | --- | --- |
| Sulfur | ppm | ASTM D5185m 23500 | 16410 | --- | --- |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|------------------|----------------|----------|----------|
| Silicon | ppm | ASTM D5185m >25 | 0 | --- | --- |
| Sodium | ppm | ASTM D5185m | 5 | --- | --- |
| Potassium | ppm | ASTM D5185m >20 | 0 | --- | --- |
| Water | % | ASTM D6304 >0.05 | ▲ 0.061 | --- | --- |
| ppm Water | ppm | ASTM D6304 >500 | ▲ 617 | --- | --- |

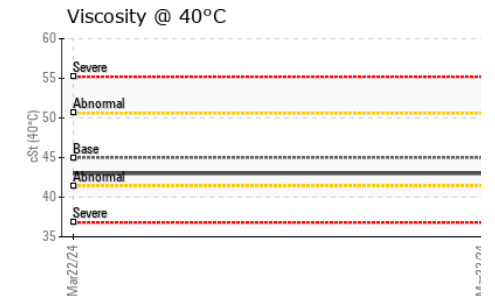
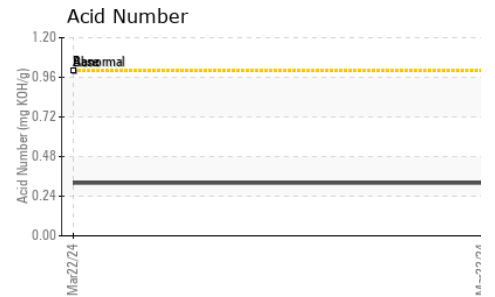
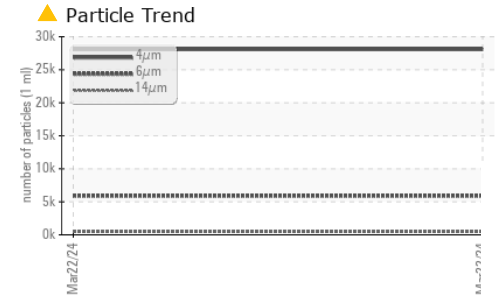
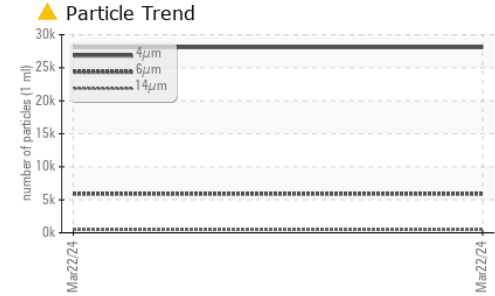
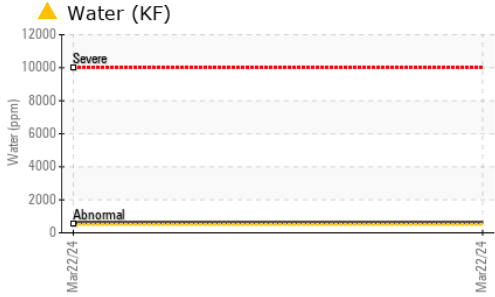
FLUID CLEANLINESS

| | method | limit/base | current | history1 | history2 |
|-----------------|--------------|------------|-------------------|----------|----------|
| Particles >4µm | ASTM D7647 | | 28077 | --- | --- |
| Particles >6µm | ASTM D7647 | >1300 | ▲ 5905 | --- | --- |
| Particles >14µm | ASTM D7647 | >80 | ▲ 448 | --- | --- |
| Particles >21µm | ASTM D7647 | >20 | ▲ 93 | --- | --- |
| Particles >38µm | ASTM D7647 | >4 | 3 | --- | --- |
| Particles >71µm | ASTM D7647 | >3 | 0 | --- | --- |
| Oil Cleanliness | ISO 4406 (c) | >--/17/13 | ▲ 22/20/16 | --- | --- |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|----------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 1.0 | 0.32 | --- | --- |

OIL ANALYSIS REPORT



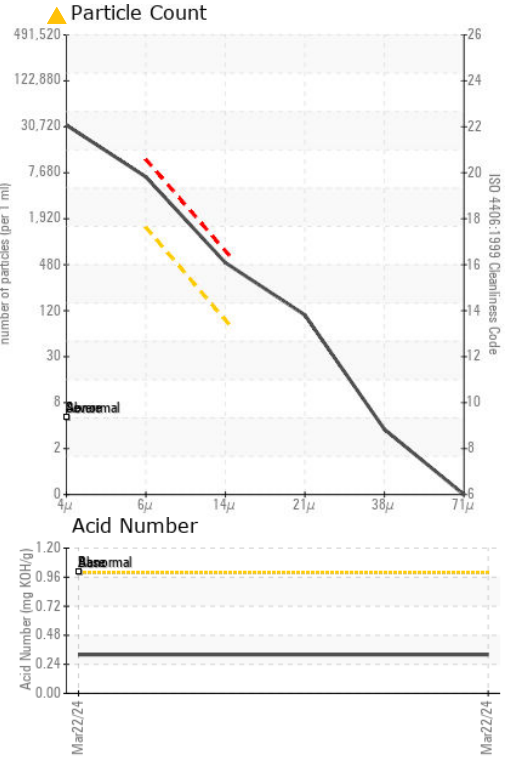
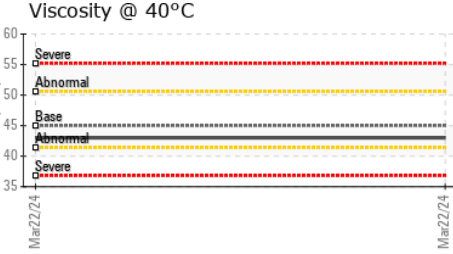
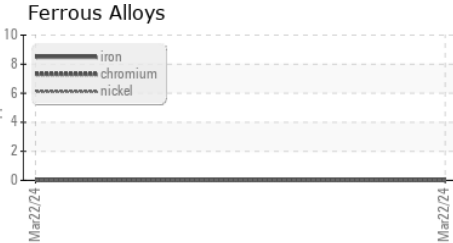
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE | --- |
| Silt | scalar | *Visual | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | --- |
| 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 | 43.0 | --- |

| 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. : KCP09351 **Received** : 10 Apr 2024
Lab Number : 06144253 **Tested** : 11 Apr 2024
Unique Number : 10969061 **Diagnosed** : 11 Apr 2024 - Doug Bogart
Test Package : IND 2 (Additional Tests: KF, PrtCount)

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 1010 ISUZU PKWY
 GRAND PRAIRIE, TX
 US 75050
 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)

T:
F: