KAESER COMPRESSORS
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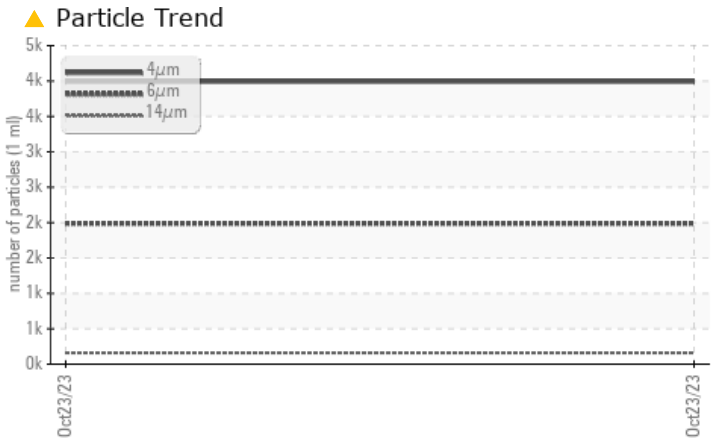
# PROBLEM SUMMARY

**Sample Rating Trend**


**ISO**

Machine Id
## 8718030 (S/N 1598)
Component
**Compressor**
Fluid
**KAESER SIGMA (OEM) M-460 (--- GAL)**

## COMPONENT CONDITION SUMMARY




## RECOMMENDATION

No corrective action is recommended at this time. Oil and 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 | ▲ **1987** | --- | --- |
| Particles >14µm | | ASTM D7647 | >80 | ▲ **160** | --- | --- |
| Particles >21µm | | ASTM D7647 | >20 | ▲ **30** | --- | --- |
| Oil Cleanliness | | ISO 4406 (c) | >--/17/13 | ▲ **19/18/14** | --- | --- |

**Customer Id:** LULEAS
**Sample No.:** KC106889
**Lab Number:** 06000524
**Test Package:** IND 2

*To manage this report scan the QR code*

*To discuss the diagnosis or test data:*
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

*To change component or sample information:*
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

## RECOMMENDED ACTIONS

| Action | Status | Date | Done By | Description |
|---|---|---|---|---|
| Change Fluid | --- | --- | ? | Oil and filter change at the time of sampling has been noted. |
| Change Filter | --- | --- | ? | Oil and filter change at the time of sampling has been noted. |

## HISTORICAL DIAGNOSIS

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# OIL ANALYSIS REPORT

Sample Rating Trend


ISO

Machine Id
## 8718030 (S/N 1598)
Component
**Compressor**
Fluid
**KAESER SIGMA (OEM) M-460 (--- GAL)**

## DIAGNOSIS

**Recommendation**
No corrective action is recommended at this time. Oil and 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 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 | | **KC106889** | --- | --- |
| Sample Date | | Client Info | | **23 Oct 2023** | --- | --- |
| Machine Age | hrs | Client Info | | **2477** | --- | --- |
| Oil Age | hrs | Client Info | | **2477** | --- | --- |
| Oil Changed | | Client Info | | **Changed** | --- | --- |
| Sample Status | | | | **ATTENTION** | --- | --- |

| 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 | **<1** | --- | --- |
| Titanium | ppm | ASTM D5185m | >3 | **0** | --- | --- |
| Silver | ppm | ASTM D5185m | >2 | **0** | --- | --- |
| Aluminum | ppm | ASTM D5185m | >10 | **0** | --- | --- |
| Lead | ppm | ASTM D5185m | >10 | **<1** | --- | --- |
| Copper | ppm | ASTM D5185m | >50 | **2** | --- | --- |
| 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 | **0** | --- | --- |
| Molybdenum | ppm | ASTM D5185m | 0 | **0** | --- | --- |
| Manganese | ppm | ASTM D5185m | | **<1** | --- | --- |
| Magnesium | ppm | ASTM D5185m | 100 | **50** | --- | --- |
| Calcium | ppm | ASTM D5185m | 0 | **1** | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 0 | **2** | --- | --- |
| Zinc | ppm | ASTM D5185m | 0 | **0** | --- | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >25 | **<1** | --- | --- |
| Sodium | ppm | ASTM D5185m | | **11** | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | **5** | --- | --- |
| Water | % | ASTM D6304 | >0.05 | **0.015** | --- | --- |
| ppm Water | ppm | ASTM D6304 | >500 | **157.9** | --- | --- |

| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Particles >4µm | | ASTM D7647 | | **3993** | --- | --- |
| Particles >6µm | | ASTM D7647 | >1300 | ▲ **1987** | --- | --- |
| Particles >14µm | | ASTM D7647 | >80 | ▲ **160** | --- | --- |
| Particles >21µm | | ASTM D7647 | >20 | ▲ **30** | --- | --- |
| Particles >38µm | | ASTM D7647 | >4 | **1** | --- | --- |
| Particles >71µm | | ASTM D7647 | >3 | **0** | --- | --- |
| Oil Cleanliness | | ISO 4406 (c) | >--/17/13 | ▲ **19/18/14** | --- | --- |

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

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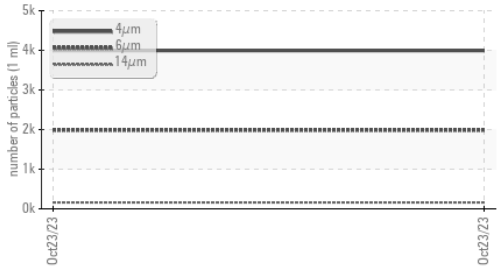
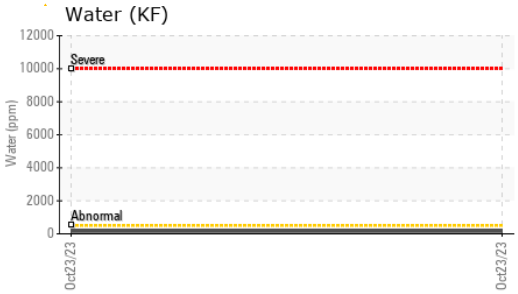
# OIL ANALYSIS REPORT

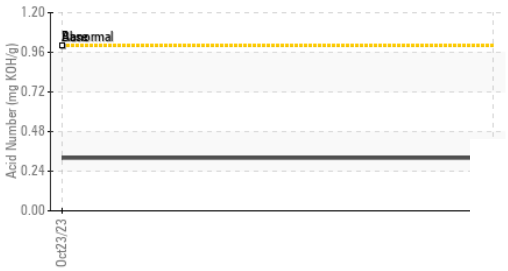
Particle Trend



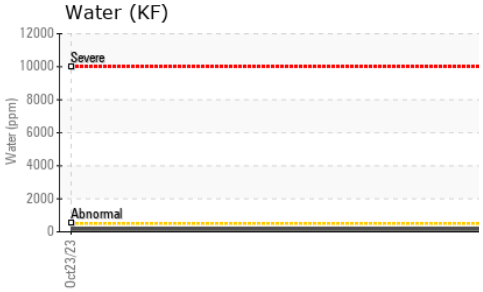

Water (KF)



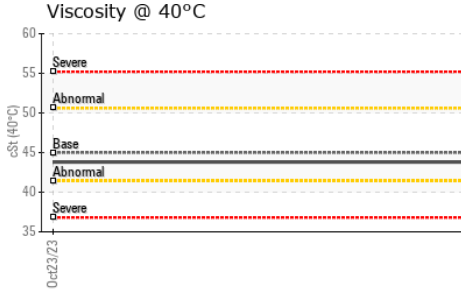

Acid Number




Water (KF)

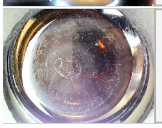



Viscosity @ 40°C



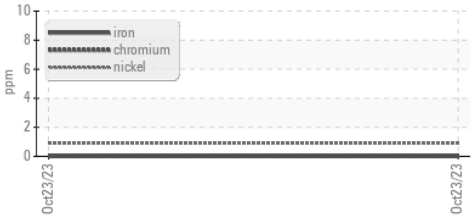

| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| White Metal | scalar | *Visual | NONE | **LIGHT** | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | --- | --- |
| Precipitate | scalar | *Visual | NONE | **NONE** | --- | --- |
| Silt | 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 | **43.8** | --- | --- |

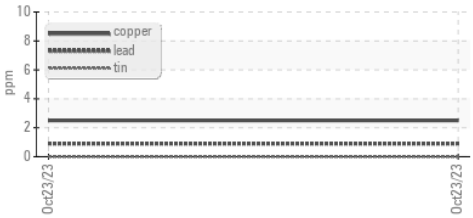
| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | |  | *no image* | *no image* |
| Bottom | | |  | *no image* | *no image* |

## GRAPHS

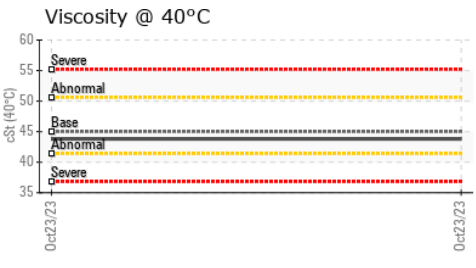
Ferrous Alloys



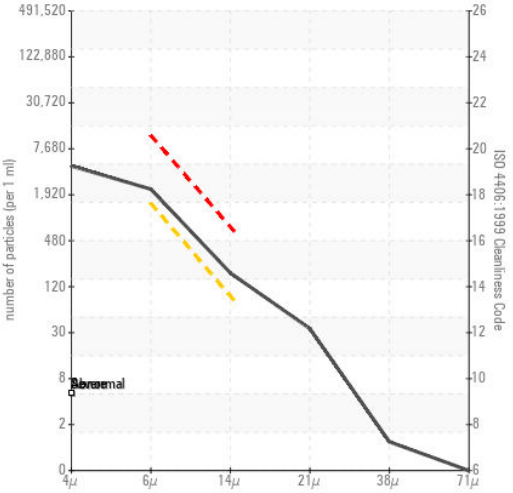

Non-ferrous Metals



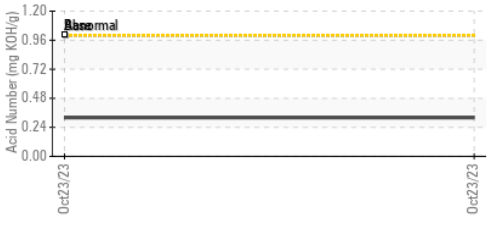

Viscosity @ 40°C




Particle Count




Acid Number




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : KC106889
**Lab Number** : 06000524
**Unique Number** : 10728884
**Test Package** : IND 2

**Received** : 07 Nov 2023
**Diagnosed** : 09 Nov 2023
**Diagnostician** : Jonathan Hester

*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)*

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