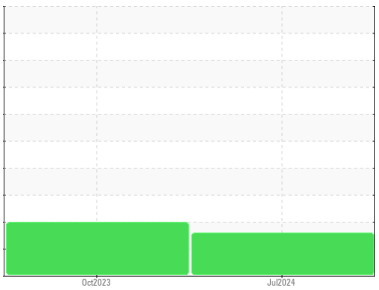
KAESER COMPRESSORS
Built for a lifetime.

# OIL ANALYSIS REPORT

Sample Rating Trend




**WATER**

Machine Id
## KAESER 8520756
Component
**Compressor**
Fluid
**{not provided} (--- QTS)**

## DIAGNOSIS

**Recommendation**
Please specify the brand, type, and viscosity of the oil on your next sample. 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 light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

**Fluid Condition**
The AN level is acceptable for this fluid.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **KCPA019106** | KC125039 | --- |
| Sample Date | | Client Info | | **09 Jul 2024** | 03 Oct 2023 | --- |
| Machine Age | hrs | Client Info | | **9086** | 5465 | --- |
| Oil Age | hrs | Client Info | | **9086** | 0 | --- |
| Oil Changed | | Client Info | | **Not Changd** | N/A | --- |
| Sample Status | | | | **ABNORMAL** | ABNORMAL | --- |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185m | >50 | **<1** | 0 | --- |
| Chromium | ppm | ASTM D5185m | >10 | **0** | 0 | --- |
| Nickel | ppm | ASTM D5185m | >3 | **0** | 0 | --- |
| Titanium | ppm | ASTM D5185m | >3 | **0** | 0 | --- |
| Silver | ppm | ASTM D5185m | >2 | **0** | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >10 | **0** | 0 | --- |
| Lead | ppm | ASTM D5185m | >10 | **5** | 2 | --- |
| Copper | ppm | ASTM D5185m | >50 | **0** | <1 | --- |
| Tin | ppm | ASTM D5185m | >10 | **<1** | <1 | --- |
| Vanadium | ppm | ASTM D5185m | | **0** | 0 | --- |
| Cadmium | ppm | ASTM D5185m | | **0** | 0 | --- |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185m | | **0** | 0 | --- |
| Barium | ppm | ASTM D5185m | | **4** | 8 | --- |
| Molybdenum | ppm | ASTM D5185m | | **0** | 0 | --- |
| Manganese | ppm | ASTM D5185m | | **0** | 0 | --- |
| Magnesium | ppm | ASTM D5185m | | **2** | 5 | --- |
| Calcium | ppm | ASTM D5185m | | **0** | 0 | --- |
| Phosphorus | ppm | ASTM D5185m | | **1509** | 1349 | --- |
| Zinc | ppm | ASTM D5185m | | **0** | 0 | --- |
| Sulfur | ppm | ASTM D5185m | | **72** | 248 | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >25 | **0** | <1 | --- |
| Sodium | ppm | ASTM D5185m | | **<1** | 2 | --- |
| Potassium | ppm | ASTM D5185m | >20 | **<1** | 2 | --- |
| Water | % | ASTM D6304 | >0.05 | ▲ **0.080** | ▲ 0.064 | --- |
| ppm Water | ppm | ASTM D6304 | >500 | ▲ **805** | ▲ 642.9 | --- |

| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Particles >4µm | | ASTM D7647 | | **4200** | 2015 | --- |
| Particles >6µm | | ASTM D7647 | >1300 | **830** | 434 | --- |
| Particles >14µm | | ASTM D7647 | >80 | **57** | 37 | --- |
| Particles >21µm | | ASTM D7647 | >20 | **14** | 12 | --- |
| Particles >38µm | | ASTM D7647 | >4 | **1** | 2 | --- |
| Particles >71µm | | ASTM D7647 | >3 | **0** | 0 | --- |
| Oil Cleanliness | | ISO 4406 (c) | >--/17/13 | **19/17/13** | 18/16/12 | --- |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | **0.16** | 0.09 | --- |

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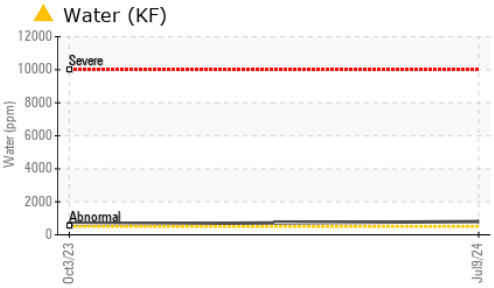
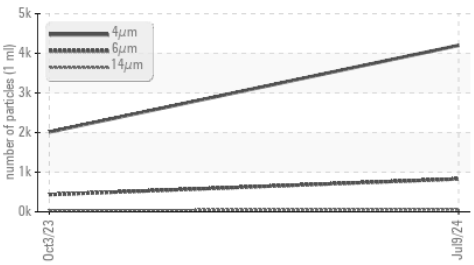
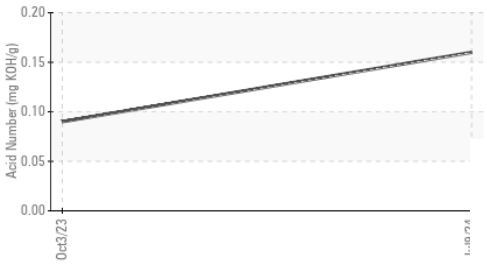
Water (KF)



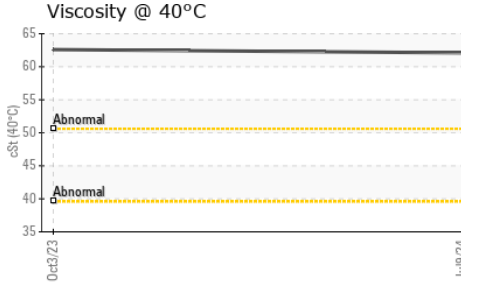

Particle Trend



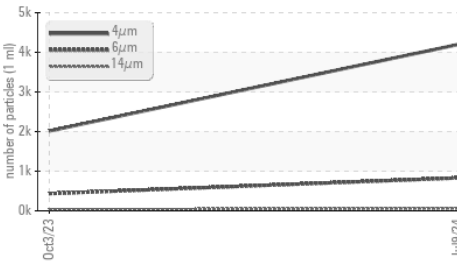

Acid Number




Viscosity @ 40°C




Particle Trend



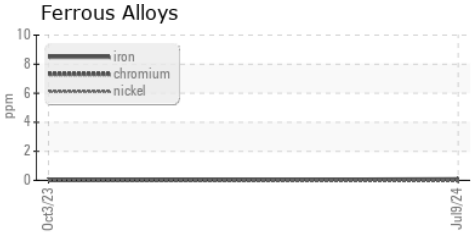

| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| White Metal | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Precipitate | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Silt | 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 | | **62.1** | 62.6 | --- |

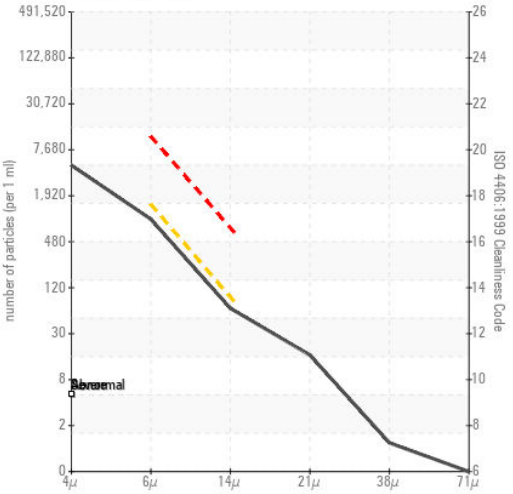
| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | |  |  | *no image* |
| Bottom | | |  |  | *no image* |

## GRAPHS

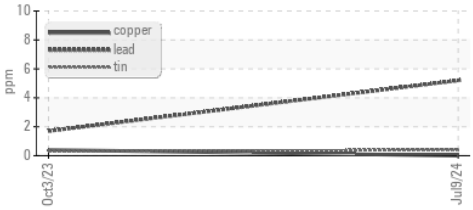
Ferrous Alloys



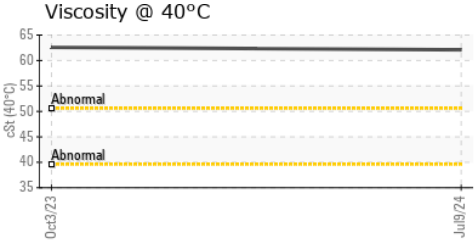

Particle Count



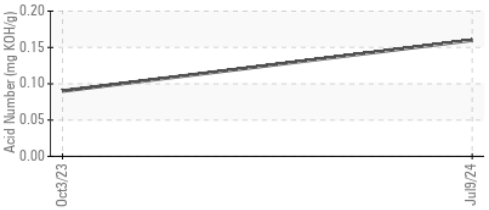

Non-ferrous Metals




Viscosity @ 40°C




Acid Number




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : KCPA019106
**Lab Number** : 06238383
**Unique Number** : 11127217
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**Received** : 16 Jul 2024
**Tested** : 17 Jul 2024
**Diagnosed** : 18 Jul 2024 - Don Baldridge

**BAYER**
800 N LINDBERGH BLVD
ST. LOUIS, MO
US 63107
Contact: Service Manager
T:
F:

*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)*