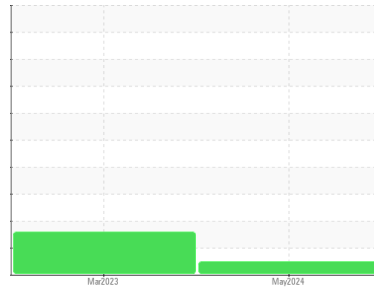




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**KAESER 7737031**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) S-460 (--- GAL)**

### DIAGNOSIS

**Recommendation**  
 Resample at the next service interval to monitor.

**Wear**  
 All component wear rates are normal.

**Contamination**  
 There is no indication of any contamination 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. The condition of the oil is suitable for further service.

### SAMPLE INFORMATION

|               | method      | limit/base  | current            | history1    | history2 |
|---------------|-------------|-------------|--------------------|-------------|----------|
| Sample Number | Client Info |             | <b>KC129001</b>    | KC102641    | ---      |
| Sample Date   | Client Info |             | <b>24 May 2024</b> | 02 Mar 2023 | ---      |
| Machine Age   | hrs         | Client Info | <b>0</b>           | 1170        | ---      |
| Oil Age       | hrs         | Client Info | <b>2000</b>        | 1169        | ---      |
| Oil Changed   | Client Info |             | <b>Changed</b>     | Changed     | ---      |
| Sample Status |             |             | <b>NORMAL</b>      | ABNORMAL    | ---      |

### WEAR METALS

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

### ADDITIVES

|            | method | limit/base     | current      | history1 | history2 |
|------------|--------|----------------|--------------|----------|----------|
| Boron      | ppm    | ASTM D5185m    | <b>0</b>     | 0        | ---      |
| Barium     | ppm    | ASTM D5185m 90 | <b>0</b>     | 0        | ---      |
| Molybdenum | ppm    | ASTM D5185m    | <b>0</b>     | 0        | ---      |
| Manganese  | ppm    | ASTM D5185m    | <b>&lt;1</b> | <1       | ---      |
| Magnesium  | ppm    | ASTM D5185m 90 | <b>0</b>     | 40       | ---      |
| Calcium    | ppm    | ASTM D5185m 2  | <b>0</b>     | 0        | ---      |
| Phosphorus | ppm    | ASTM D5185m    | <b>0</b>     | 0        | ---      |
| Zinc       | ppm    | ASTM D5185m    | <b>0</b>     | 0        | ---      |

### CONTAMINANTS

|           | method | limit/base       | current      | history1 | history2 |
|-----------|--------|------------------|--------------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >25  | <b>&lt;1</b> | 0        | ---      |
| Sodium    | ppm    | ASTM D5185m      | <b>2</b>     | 11       | ---      |
| Potassium | ppm    | ASTM D5185m >20  | <b>&lt;1</b> | 5        | ---      |
| Water     | %      | ASTM D6304 >0.05 | <b>0.007</b> | 0.019    | ---      |
| ppm Water | ppm    | ASTM D6304 >500  | <b>78</b>    | 190.2    | ---      |

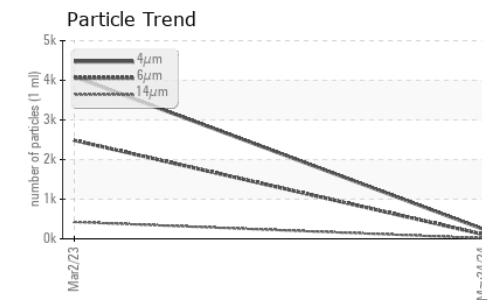
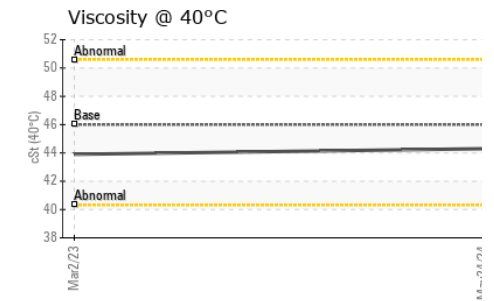
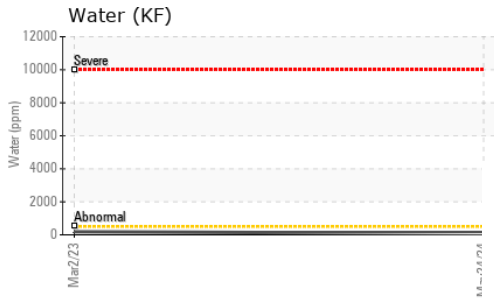
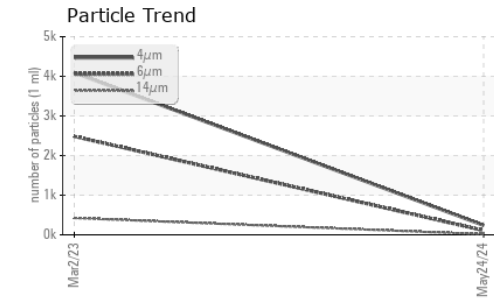
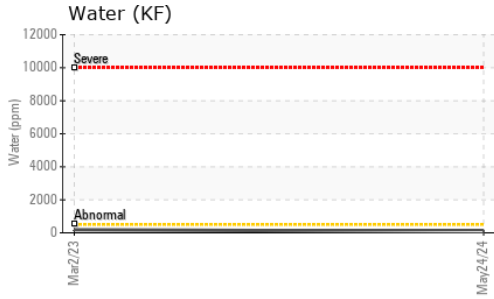
### FLUID CLEANLINESS

|                 | method                 | limit/base | current         | history1 | history2 |
|-----------------|------------------------|------------|-----------------|----------|----------|
| Particles >4µm  | ASTM D7647             |            | <b>239</b>      | 4092     | ---      |
| Particles >6µm  | ASTM D7647 >1300       |            | <b>109</b>      | 2484     | ---      |
| Particles >14µm | ASTM D7647 >80         |            | <b>14</b>       | 424      | ---      |
| Particles >21µm | ASTM D7647 >20         |            | <b>7</b>        | 84       | ---      |
| Particles >38µm | ASTM D7647 >4          |            | <b>0</b>        | 2        | ---      |
| Particles >71µm | ASTM D7647 >3          |            | <b>0</b>        | 0        | ---      |
| Oil Cleanliness | ISO 4406 (c) >--/17/13 |            | <b>15/14/11</b> | 19/18/16 | ---      |

### FLUID DEGRADATION

|                  | method   | limit/base     | current     | history1 | history2 |
|------------------|----------|----------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 0.4 | <b>0.41</b> | 0.37     | ---      |

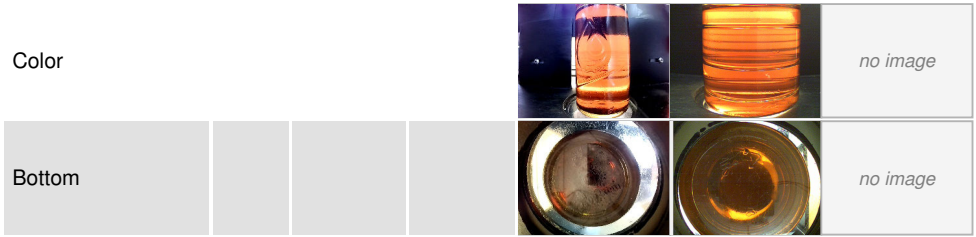
# OIL ANALYSIS REPORT



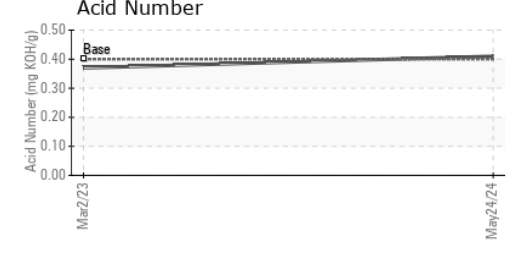
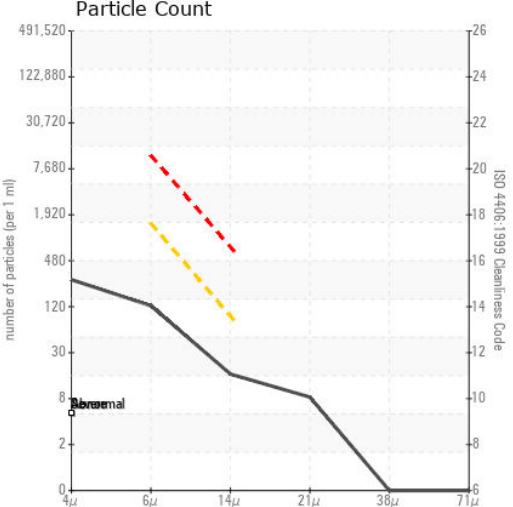
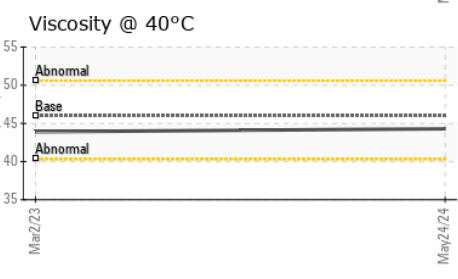
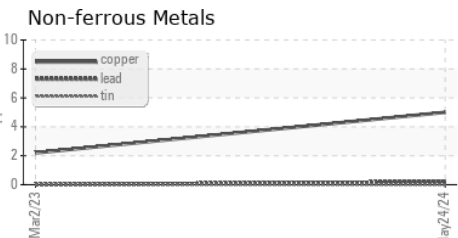
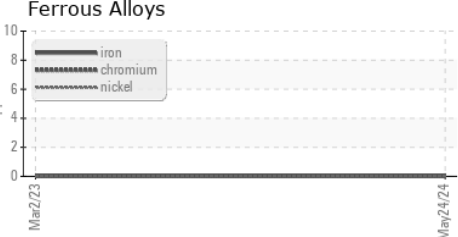
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | ---      |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | ---      |
| 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 46 | 44.3    | 43.9     | ---      |

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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC129001  
**Lab Number** : 06200761  
**Unique Number** : 11062884  
**Test Package** : IND 2

**SOUTHERN PAINT AND POWDER COATING**  
 PAGELAND, SC  
 US  
 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: