



# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**KAESER ASD 25 8148246 (S/N 1164)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) M-460 (--- GAL)**

## DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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 |             |            | <b>KCPA016415</b>  | ---      | ---      |
| Sample Date        | Client Info |             |            | <b>29 Apr 2024</b> | ---      | ---      |
| Machine Age        | hrs         | Client Info |            | <b>8293</b>        | ---      | ---      |
| Oil Age            | hrs         | Client Info |            | <b>8293</b>        | ---      | ---      |
| Oil Changed        | Client Info |             |            | <b>Changed</b>     | ---      | ---      |
| Sample Status      |             |             |            | <b>ATTENTION</b>   | ---      | ---      |

| WEAR METALS |     | method      | limit/base | current  | history1 | history2 |
|-------------|-----|-------------|------------|----------|----------|----------|
| Iron        | ppm | ASTM D5185m | >50        | <b>0</b> | ---      | ---      |
| Chromium    | ppm | ASTM D5185m | >10        | <b>0</b> | ---      | ---      |
| Nickel      | ppm | ASTM D5185m | >3         | <b>0</b> | ---      | ---      |
| Titanium    | ppm | ASTM D5185m | >3         | <b>0</b> | ---      | ---      |
| Silver      | ppm | ASTM D5185m | >2         | <b>0</b> | ---      | ---      |
| Aluminum    | ppm | ASTM D5185m | >10        | <b>0</b> | ---      | ---      |
| Lead        | ppm | ASTM D5185m | >10        | <b>0</b> | ---      | ---      |
| Copper      | ppm | ASTM D5185m | >50        | <b>6</b> | ---      | ---      |
| Tin         | ppm | ASTM D5185m | >10        | <b>0</b> | ---      | ---      |
| Vanadium    | ppm | ASTM D5185m |            | <b>0</b> | ---      | ---      |
| Cadmium     | ppm | ASTM D5185m |            | <b>0</b> | ---      | ---      |

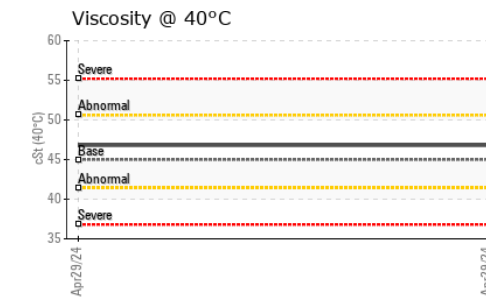
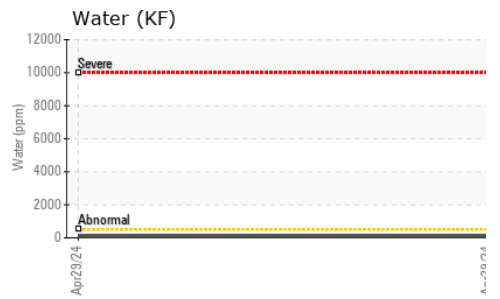
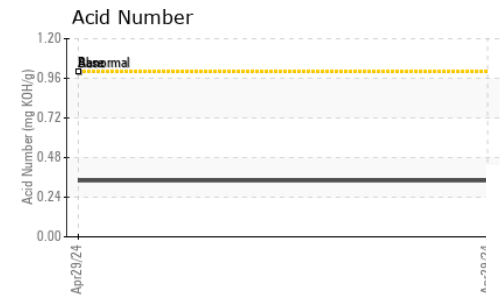
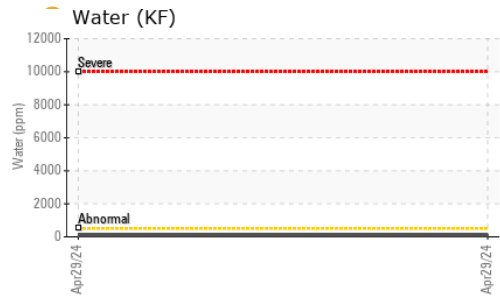
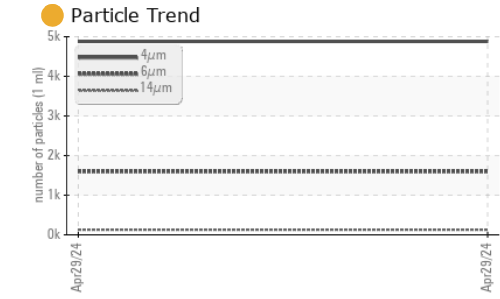
| ADDITIVES  |     | method      | limit/base | current      | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron      | ppm | ASTM D5185m | 0          | <b>0</b>     | ---      | ---      |
| Barium     | ppm | ASTM D5185m | 90         | <b>0</b>     | ---      | ---      |
| Molybdenum | ppm | ASTM D5185m | 0          | <b>0</b>     | ---      | ---      |
| Manganese  | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Magnesium  | ppm | ASTM D5185m | 100        | <b>0</b>     | ---      | ---      |
| Calcium    | ppm | ASTM D5185m | 0          | <b>0</b>     | ---      | ---      |
| Phosphorus | ppm | ASTM D5185m | 0          | <b>0</b>     | ---      | ---      |
| Zinc       | ppm | ASTM D5185m | 0          | <b>12</b>    | ---      | ---      |
| Sulfur     | ppm | ASTM D5185m | 23500      | <b>19571</b> | ---      | ---      |

| CONTAMINANTS |     | method      | limit/base | current      | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >25        | <b>0</b>     | ---      | ---      |
| Sodium       | ppm | ASTM D5185m |            | <b>&lt;1</b> | ---      | ---      |
| Potassium    | ppm | ASTM D5185m | >20        | <b>&lt;1</b> | ---      | ---      |
| Water        | %   | ASTM D6304  | >0.05      | <b>0.009</b> | ---      | ---      |
| ppm Water    | ppm | ASTM D6304  | >500       | <b>90</b>    | ---      | ---      |

| FLUID CLEANLINESS |  | method       | limit/base | current         | history1 | history2 |
|-------------------|--|--------------|------------|-----------------|----------|----------|
| Particles >4µm    |  | ASTM D7647   |            | <b>4882</b>     | ---      | ---      |
| Particles >6µm    |  | ASTM D7647   | >1300      | <b>1599</b>     | ---      | ---      |
| Particles >14µm   |  | ASTM D7647   | >80        | <b>128</b>      | ---      | ---      |
| Particles >21µm   |  | ASTM D7647   | >20        | <b>41</b>       | ---      | ---      |
| Particles >38µm   |  | ASTM D7647   | >4         | <b>2</b>        | ---      | ---      |
| Particles >71µm   |  | ASTM D7647   | >3         | <b>0</b>        | ---      | ---      |
| Oil Cleanliness   |  | ISO 4406 (c) | >--/17/13  | <b>19/18/14</b> | ---      | ---      |

| FLUID DEGRADATION |          | method     | limit/base | current     | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN)  | mg KOH/g | ASTM D8045 | 1.0        | <b>0.34</b> | ---      | ---      |

# OIL ANALYSIS REPORT



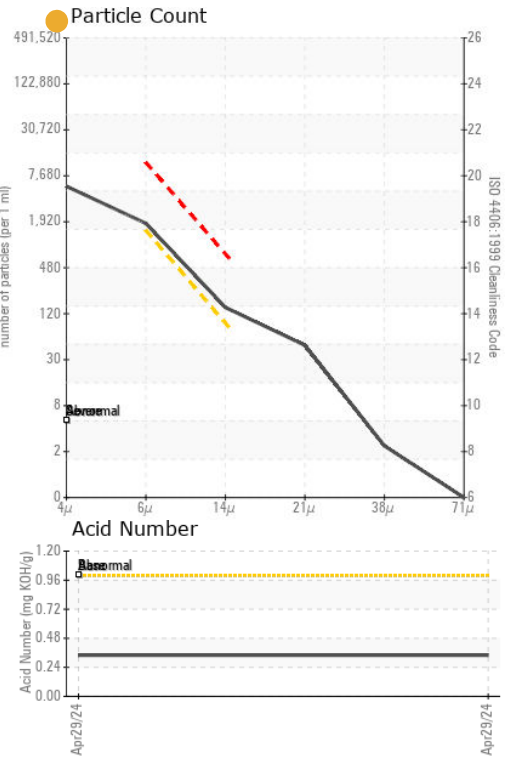
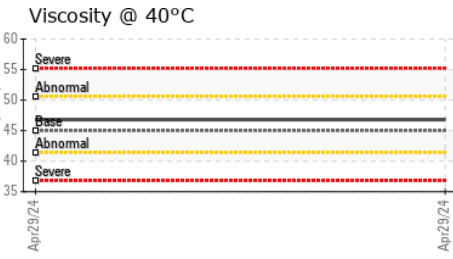
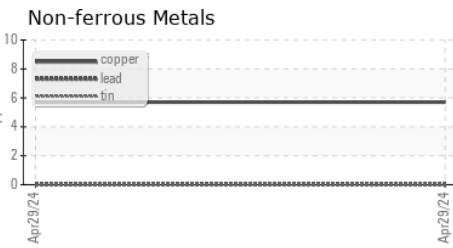
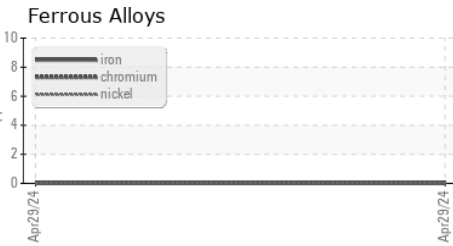
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | ---      |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | ---      |
| 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      | 46.8     | ---      |

| 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.** : KCPA016415 **Received** : 09 May 2024  
**Lab Number** : 06174620 **Tested** : 10 May 2024  
**Unique Number** : 11020673 **Diagnosed** : 13 May 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**WEBCO INDUSTRIES**  
 201 S WOODLAND DR  
 SAND SPRINGS, OK  
 US 74063  
 Contact: G. FRASCINI  
 gfrascini@webcoindustries.com

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)