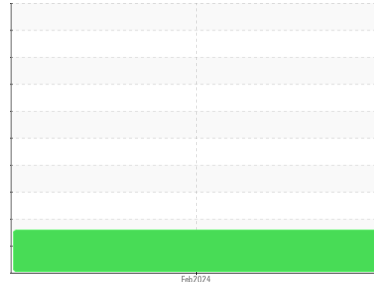




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**KAESER ASD 25 8654079 (S/N 1217)**

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 high 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>KCPA015476</b>  | ---      | ---      |
| Sample Date   | Client Info     | <b>14 Feb 2024</b> | ---      | ---      |
| Machine Age   | hrs Client Info | <b>1790</b>        | ---      | ---      |
| Oil Age       | hrs Client Info | <b>1790</b>        | ---      | ---      |
| Oil Changed   | Client Info     | <b>Changed</b>     | ---      | ---      |
| Sample Status |                 | <b>ABNORMAL</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>&lt;1</b> | ---      | ---      |
| Lead ppm     | ASTM D5185m >10 | <b>0</b>     | ---      | ---      |
| Copper ppm   | ASTM D5185m >50 | <b>2</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>&lt;1</b> | ---      | ---      |
| Magnesium ppm  | ASTM D5185m 100   | <b>65</b>    | ---      | ---      |
| Calcium ppm    | ASTM D5185m 0     | <b>2</b>     | ---      | ---      |
| Phosphorus ppm | ASTM D5185m 0     | <b>0</b>     | ---      | ---      |
| Zinc ppm       | ASTM D5185m 0     | <b>2</b>     | ---      | ---      |
| Sulfur ppm     | ASTM D5185m 23500 | <b>21110</b> | ---      | ---      |

## CONTAMINANTS

| method        | limit/base       | current      | history1 | history2 |
|---------------|------------------|--------------|----------|----------|
| Silicon ppm   | ASTM D5185m >25  | <b>&lt;1</b> | ---      | ---      |
| Sodium ppm    | ASTM D5185m      | <b>23</b>    | ---      | ---      |
| Potassium ppm | ASTM D5185m >20  | <b>2</b>     | ---      | ---      |
| Water %       | ASTM D6304 >0.05 | <b>0.019</b> | ---      | ---      |
| ppm Water ppm | ASTM D6304 >500  | <b>191</b>   | ---      | ---      |

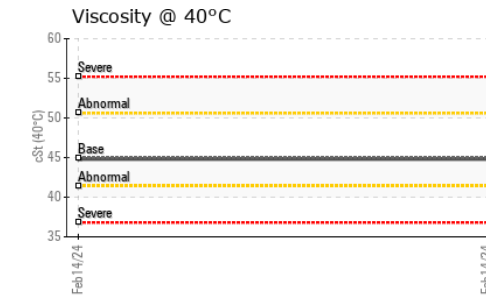
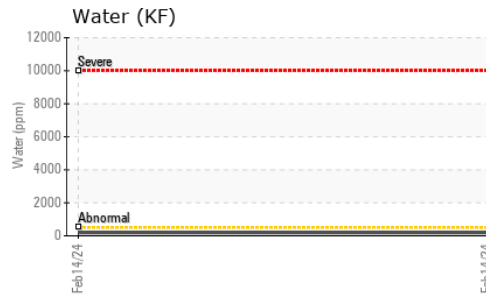
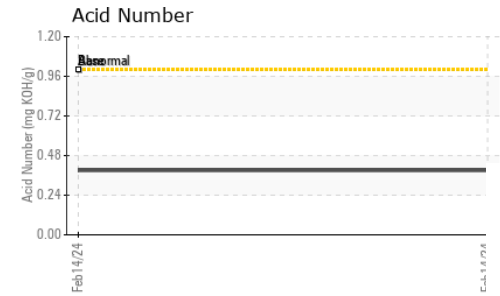
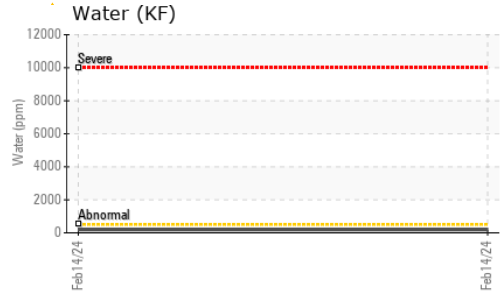
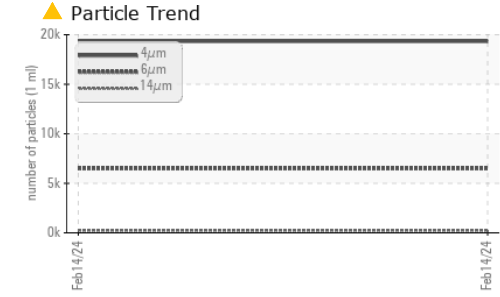
## FLUID CLEANLINESS

| method          | limit/base             | current           | history1 | history2 |
|-----------------|------------------------|-------------------|----------|----------|
| Particles >4µm  | ASTM D7647             | <b>19333</b>      | ---      | ---      |
| Particles >6µm  | ASTM D7647 >1300       | ▲ <b>6493</b>     | ---      | ---      |
| Particles >14µm | ASTM D7647 >80         | ▲ <b>235</b>      | ---      | ---      |
| Particles >21µm | ASTM D7647 >20         | ▲ <b>36</b>       | ---      | ---      |
| Particles >38µm | ASTM D7647 >4          | <b>0</b>          | ---      | ---      |
| Particles >71µm | ASTM D7647 >3          | <b>0</b>          | ---      | ---      |
| Oil Cleanliness | ISO 4406 (c) >--/17/13 | ▲ <b>21/20/15</b> | ---      | ---      |

## FLUID DEGRADATION

| method                    | limit/base     | current     | history1 | history2 |
|---------------------------|----------------|-------------|----------|----------|
| Acid Number (AN) mg KOH/g | ASTM D8045 1.0 | <b>0.39</b> | ---      | ---      |

# OIL ANALYSIS REPORT



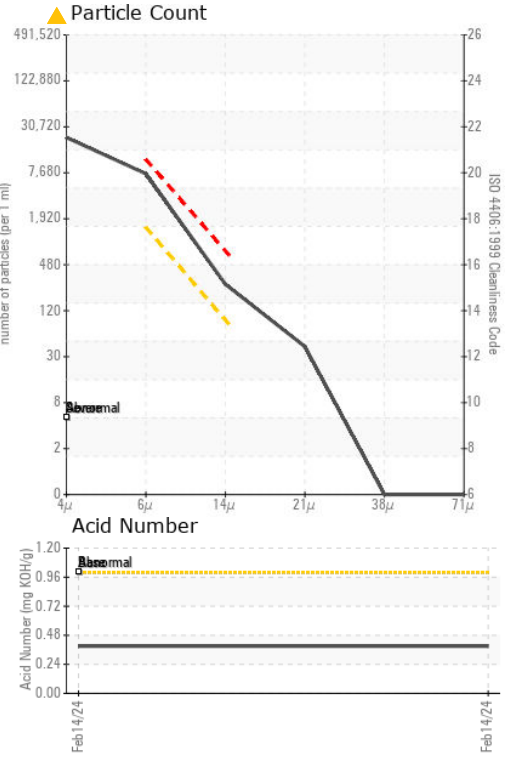
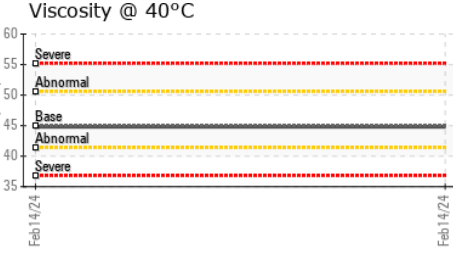
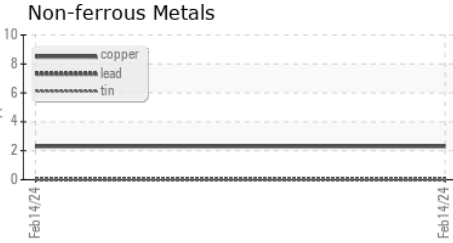
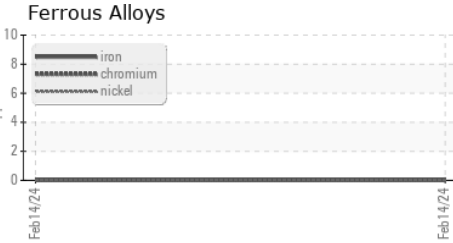
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | ---      |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | ---      |
| 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      | 44.8     | ---      |

| 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.** : KCPA015476 **Received** : 21 Mar 2024  
**Lab Number** : 06125722 **Tested** : 22 Mar 2024  
**Unique Number** : 10939873 **Diagnosed** : 25 Mar 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**PAUL'S MARBLE DEPOT**  
 40 WARSHAW PL  
 STAMFORD, CT  
 US 06902  
 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)