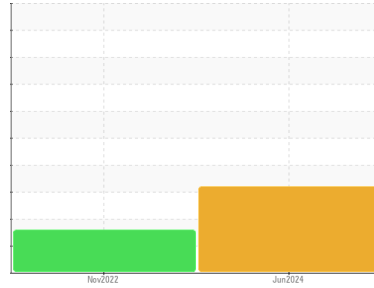




# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Machine Id  
**KAESER SK 15 8211001 (S/N 1813)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) S-460 (--- LTR)**

**DIAGNOSIS**

**▲ Recommendation**

There is too much water present in this sample to perform a particle count. We recommend an early resample in 500 hours to monitor this condition.

**Wear**

All component wear rates are normal.

**▲ Contamination**

Free water present. Excessive free water present.

**Fluid Condition**

The AN level is acceptable for this fluid.

| SAMPLE INFORMATION |             | method      | limit/base | current            | history1    | history2 |
|--------------------|-------------|-------------|------------|--------------------|-------------|----------|
| Sample Number      | Client Info |             |            | <b>KCPA017372</b>  | KCP40307D   | ---      |
| Sample Date        | Client Info |             |            | <b>06 Jun 2024</b> | 04 Nov 2022 | ---      |
| Machine Age        | hrs         | Client Info |            | <b>4247</b>        | 2027        | ---      |
| Oil Age            | hrs         | Client Info |            | <b>4893</b>        | 2027        | ---      |
| Oil Changed        | Client Info |             |            | <b>Changed</b>     | Changed     | ---      |
| Sample Status      |             |             |            | <b>ABNORMAL</b>    | ABNORMAL    | ---      |

| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185m | >50        | <b>1</b>     | 2        | ---      |
| Chromium    | ppm | ASTM D5185m | >10        | <b>&lt;1</b> | 0        | ---      |
| Nickel      | ppm | ASTM D5185m | >3         | <b>&lt;1</b> | 0        | ---      |
| Titanium    | ppm | ASTM D5185m | >3         | <b>&lt;1</b> | 0        | ---      |
| Silver      | ppm | ASTM D5185m | >2         | <b>&lt;1</b> | <1       | ---      |
| Aluminum    | ppm | ASTM D5185m | >10        | <b>3</b>     | 0        | ---      |
| Lead        | ppm | ASTM D5185m | >10        | <b>&lt;1</b> | 0        | ---      |
| Copper      | ppm | ASTM D5185m | >50        | <b>18</b>    | 8        | ---      |
| Tin         | ppm | ASTM D5185m | >10        | <b>&lt;1</b> | 0        | ---      |
| Vanadium    | ppm | ASTM D5185m |            | <b>&lt;1</b> | 0        | ---      |
| Cadmium     | ppm | ASTM D5185m |            | <b>&lt;1</b> | 0        | ---      |

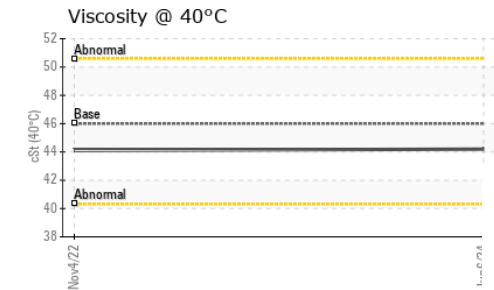
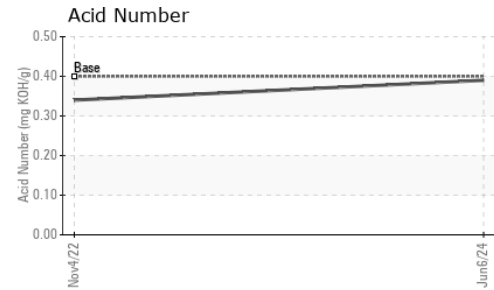
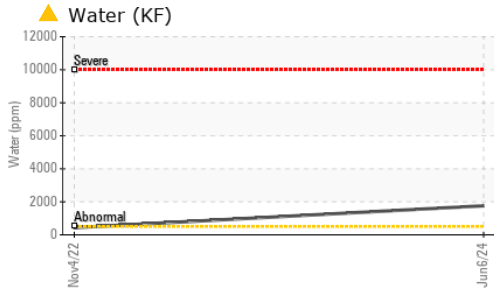
| ADDITIVES  |     | method      | limit/base | current      | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron      | ppm | ASTM D5185m |            | <b>0</b>     | 0        | ---      |
| Barium     | ppm | ASTM D5185m | 90         | <b>2</b>     | 0        | ---      |
| Molybdenum | ppm | ASTM D5185m |            | <b>&lt;1</b> | 0        | ---      |
| Manganese  | ppm | ASTM D5185m |            | <b>&lt;1</b> | <1       | ---      |
| Magnesium  | ppm | ASTM D5185m | 90         | <b>19</b>    | 47       | ---      |
| Calcium    | ppm | ASTM D5185m | 2          | <b>0</b>     | 0        | ---      |
| Phosphorus | ppm | ASTM D5185m |            | <b>&lt;1</b> | 4        | ---      |
| Zinc       | ppm | ASTM D5185m |            | <b>23</b>    | 10       | ---      |
| Sulfur     | ppm | ASTM D5185m |            | <b>19262</b> | 21159    | ---      |

| CONTAMINANTS |     | method      | limit/base | current        | history1 | history2 |
|--------------|-----|-------------|------------|----------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >25        | <b>5</b>       | <1       | ---      |
| Sodium       | ppm | ASTM D5185m |            | <b>&lt;1</b>   | 13       | ---      |
| Potassium    | ppm | ASTM D5185m | >20        | <b>2</b>       | 2        | ---      |
| Water        | %   | ASTM D6304  | >0.05      | <b>▲ 0.176</b> | 0.043    | ---      |
| ppm Water    | ppm | ASTM D6304  | >500       | <b>▲ 1760</b>  | 434.2    | ---      |

| FLUID CLEANLINESS |  | method       | limit/base | current | history1          | history2 |
|-------------------|--|--------------|------------|---------|-------------------|----------|
| Particles >4µm    |  | ASTM D7647   |            | ---     | 12284             | ---      |
| Particles >6µm    |  | ASTM D7647   | >1300      | ---     | <b>▲ 4051</b>     | ---      |
| Particles >14µm   |  | ASTM D7647   | >80        | ---     | <b>▲ 262</b>      | ---      |
| Particles >21µm   |  | ASTM D7647   | >20        | ---     | <b>▲ 38</b>       | ---      |
| Particles >38µm   |  | ASTM D7647   | >4         | ---     | 2                 | ---      |
| Particles >71µm   |  | ASTM D7647   | >3         | ---     | 0                 | ---      |
| Oil Cleanliness   |  | ISO 4406 (c) | >--/17/13  | ---     | <b>▲ 21/19/15</b> | ---      |

| FLUID DEGRADATION |          | method     | limit/base | current     | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN)  | mg KOH/g | ASTM D8045 | 0.4        | <b>0.39</b> | 0.34     | ---      |

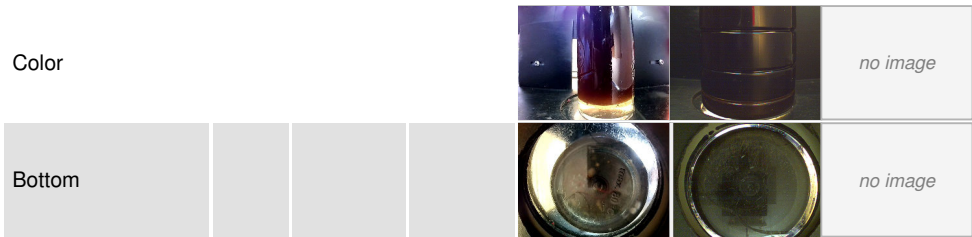
# OIL ANALYSIS REPORT



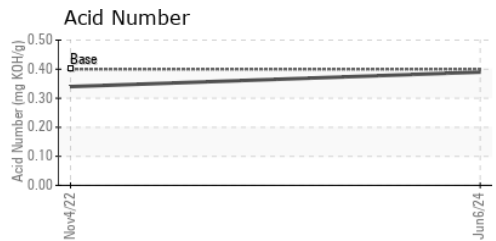
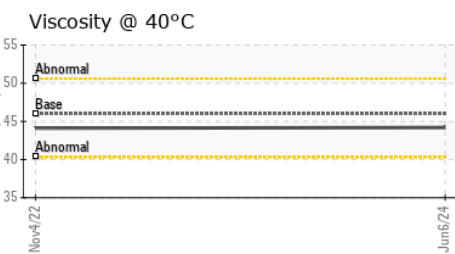
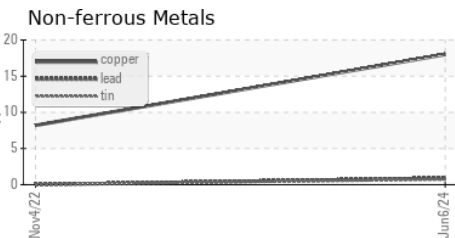
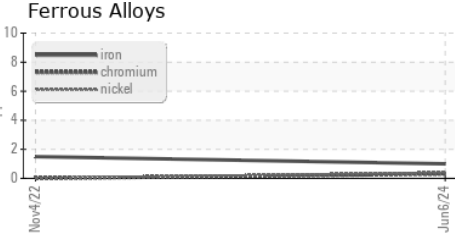
| VISUAL           | method | limit/base | current | history1      | history2 |     |
|------------------|--------|------------|---------|---------------|----------|-----|
| White Metal      | scalar | *Visual    | NONE    | <b>NONE</b>   | NONE     | --- |
| Yellow Metal     | scalar | *Visual    | NONE    | <b>NONE</b>   | NONE     | --- |
| Precipitate      | scalar | *Visual    | NONE    | <b>NONE</b>   | NONE     | --- |
| Silt             | scalar | *Visual    | NONE    | <b>NONE</b>   | NONE     | --- |
| Debris           | scalar | *Visual    | NONE    | <b>NONE</b>   | LIGHT    | --- |
| Sand/Dirt        | scalar | *Visual    | NONE    | <b>NONE</b>   | NONE     | --- |
| Appearance       | scalar | *Visual    | NORML   | <b>NORML</b>  | NORML    | --- |
| Odor             | scalar | *Visual    | NORML   | <b>NORML</b>  | NORML    | --- |
| Emulsified Water | scalar | *Visual    | >0.05   | ▲ <b>0.2%</b> | NEG      | --- |
| Free Water       | scalar | *Visual    |         | ● <b>10.0</b> | NEG      | --- |

| FLUID PROPERTIES | method | limit/base   | current     | history1 | history2 |
|------------------|--------|--------------|-------------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D445 46 | <b>44.2</b> | 44.1     | ---      |

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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA017372 **Received** : 21 Jun 2024  
**Lab Number** : **06216927** **Tested** : 24 Jun 2024  
**Unique Number** : 11089791 **Diagnosed** : 24 Jun 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**COLLIN STREET BAKERY**  
 401 W 7TH AVE  
 CORSICANA, TX  
 US 75110  
 Contact:

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: