



# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Machine Id  
**8158284 (S/N NOT GIVEN)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) FG-460 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

The filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this 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

Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

|               | method      | limit/base  | current            | history1 | history2 |
|---------------|-------------|-------------|--------------------|----------|----------|
| Sample Number | Client Info |             | <b>KCPA005055</b>  | ---      | ---      |
| Sample Date   | Client Info |             | <b>11 Jun 2024</b> | ---      | ---      |
| Machine Age   | hrs         | Client Info | <b>5213</b>        | ---      | ---      |
| Oil Age       | hrs         | Client Info | <b>0</b>           | ---      | ---      |
| Oil Changed   | Client Info |             | <b>N/A</b>         | ---      | ---      |
| Sample Status |             |             | <b>ABNORMAL</b>    | ---      | ---      |

## WEAR METALS

|          | method | limit/base      | current      | history1 | history2 |
|----------|--------|-----------------|--------------|----------|----------|
| Iron     | ppm    | ASTM D5185m >50 | <b>4</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>4</b>     | ---      | ---      |
| Lead     | ppm    | ASTM D5185m >10 | <b>0</b>     | ---      | ---      |
| Copper   | ppm    | ASTM D5185m >50 | <b>37</b>    | ---      | ---      |
| Tin      | ppm    | ASTM D5185m >10 | <b>&lt;1</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     | <b>&lt;1</b> | ---      | ---      |
| Barium     | ppm    | ASTM D5185m     | <b>0</b>     | ---      | ---      |
| Molybdenum | ppm    | ASTM D5185m     | <b>&lt;1</b> | ---      | ---      |
| Manganese  | ppm    | ASTM D5185m     | <b>&lt;1</b> | ---      | ---      |
| Magnesium  | ppm    | ASTM D5185m     | <b>0</b>     | ---      | ---      |
| Calcium    | ppm    | ASTM D5185m     | <b>0</b>     | ---      | ---      |
| Phosphorus | ppm    | ASTM D5185m 500 | <b>104</b>   | ---      | ---      |
| Zinc       | ppm    | ASTM D5185m     | <b>87</b>    | ---      | ---      |
| Sulfur     | ppm    | ASTM D5185m     | <b>1355</b>  | ---      | ---      |

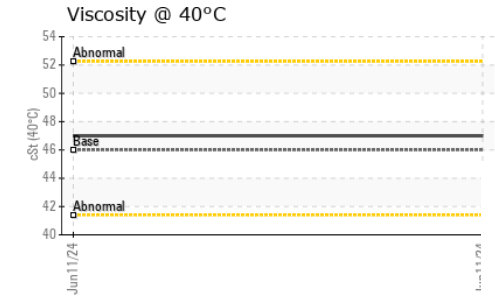
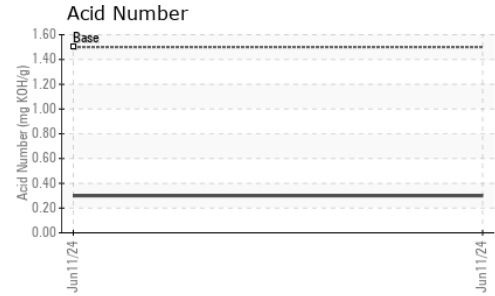
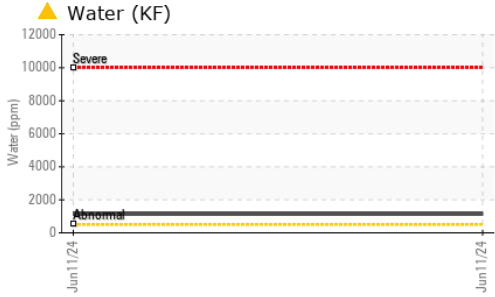
## CONTAMINANTS

|           | method | limit/base       | current        | history1 | history2 |
|-----------|--------|------------------|----------------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >25  | <b>1</b>       | ---      | ---      |
| Sodium    | ppm    | ASTM D5185m      | <b>1</b>       | ---      | ---      |
| Potassium | ppm    | ASTM D5185m >20  | <b>3</b>       | ---      | ---      |
| Water     | %      | ASTM D6304 >0.05 | <b>▲ 0.113</b> | ---      | ---      |
| ppm Water | ppm    | ASTM D6304 >500  | <b>▲ 1130</b>  | ---      | ---      |

## FLUID DEGRADATION

|                  | method   | limit/base     | current     | history1 | history2 |
|------------------|----------|----------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 1.5 | <b>0.30</b> | ---      | ---      |

# OIL ANALYSIS REPORT



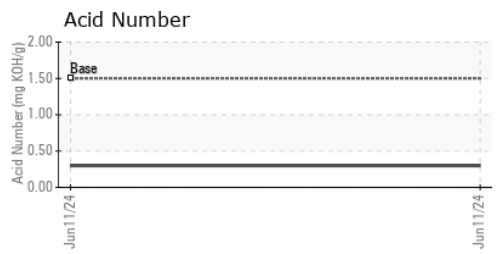
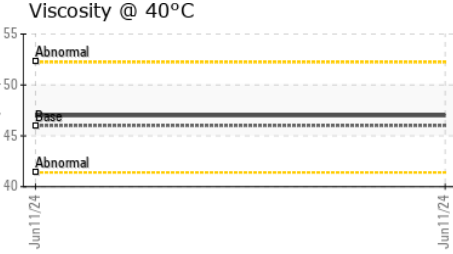
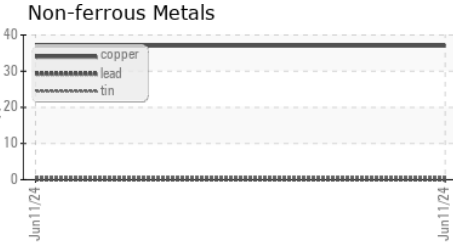
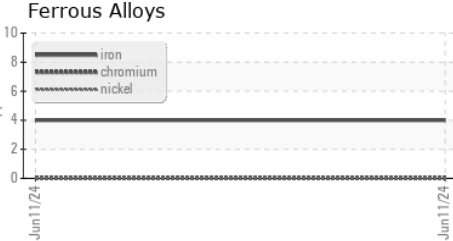
| VISUAL           | method | limit/base | current | history1       | history2 |
|------------------|--------|------------|---------|----------------|----------|
| White Metal      | scalar | *Visual    | NONE    | <b>LIGHT</b>   | ---      |
| Yellow Metal     | scalar | *Visual    | NONE    | <b>NONE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

| FLUID PROPERTIES | method | limit/base | current | history1    | history2 |
|------------------|--------|------------|---------|-------------|----------|
| Visc @ 40°C      | cSt    | ASTM D445  | 46      | <b>47.0</b> | ---      |

**SAMPLE IMAGES**

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

**GRAPHS**



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA005055 **Received** : 14 Jun 2024  
**Lab Number** : 06210165 **Tested** : 18 Jun 2024  
**Unique Number** : 11083029 **Diagnosed** : 18 Jun 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**WAYNE COUNTY FRUIT SALES LLC**  
 5930 SHAKER RD  
 ALTON, NY  
 US 14413  
 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: