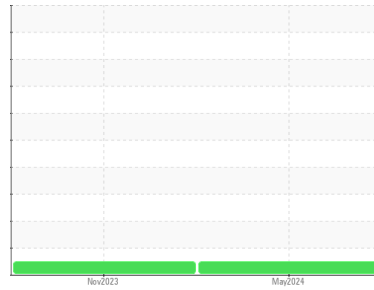




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**KAESER 8647686**  
 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>KC125225</b>    | KC120588    | ---      |
| Sample Date        | Client Info |             |            | <b>14 May 2024</b> | 06 Nov 2023 | ---      |
| Machine Age        | hrs         | Client Info |            | <b>6927</b>        | 5134        | ---      |
| Oil Age            | hrs         | Client Info |            | <b>0</b>           | 0           | ---      |
| Oil Changed        | Client Info |             |            | <b>N/A</b>         | N/A         | ---      |
| Sample Status      |             |             |            | <b>NORMAL</b>      | NORMAL      | ---      |

| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185m | >50        | <b>&lt;1</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>0</b>     | 0        | ---      |
| Silver      | ppm | ASTM D5185m | >2         | <b>0</b>     | 0        | ---      |
| Aluminum    | ppm | ASTM D5185m | >10        | <b>0</b>     | 0        | ---      |
| Lead        | ppm | ASTM D5185m | >10        | <b>0</b>     | 0        | ---      |
| Copper      | ppm | ASTM D5185m | >50        | <b>3</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        | ---      |

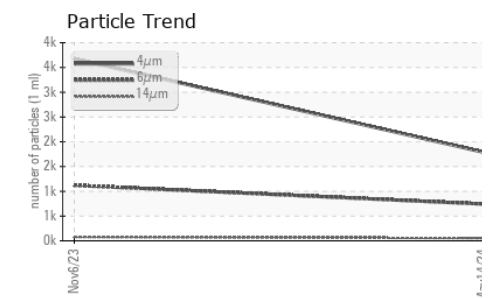
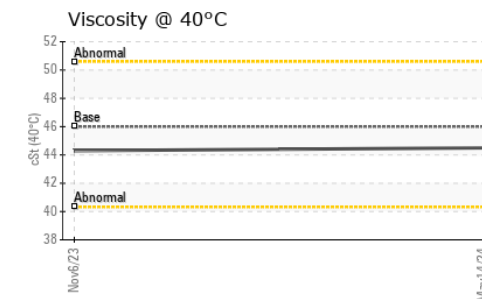
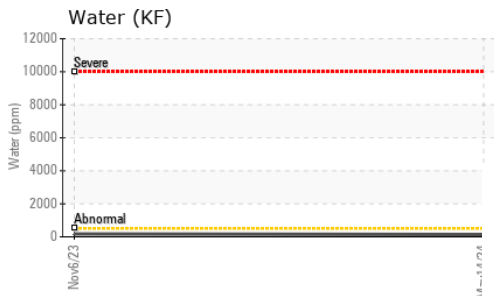
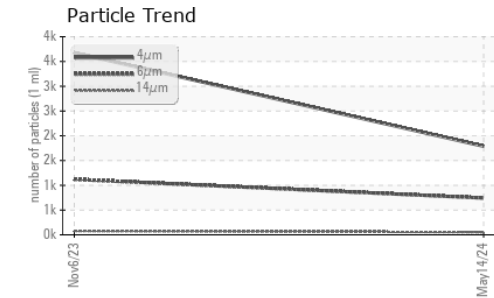
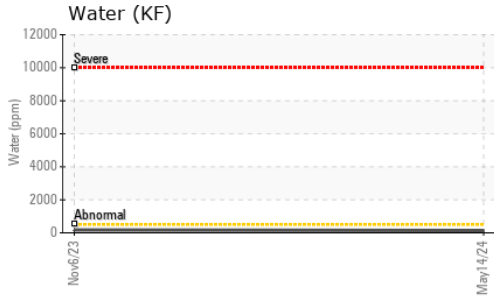
| ADDITIVES  |     | method      | limit/base | current      | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron      | ppm | ASTM D5185m |            | <b>0</b>     | 0        | ---      |
| Barium     | ppm | ASTM D5185m | 90         | <b>0</b>     | 0        | ---      |
| Molybdenum | ppm | ASTM D5185m |            | <b>0</b>     | 0        | ---      |
| Manganese  | ppm | ASTM D5185m |            | <b>0</b>     | 0        | ---      |
| Magnesium  | ppm | ASTM D5185m | 90         | <b>31</b>    | 54       | ---      |
| Calcium    | ppm | ASTM D5185m | 2          | <b>0</b>     | 0        | ---      |
| Phosphorus | ppm | ASTM D5185m |            | <b>&lt;1</b> | <1       | ---      |
| Zinc       | ppm | ASTM D5185m |            | <b>21</b>    | 0        | ---      |

| CONTAMINANTS |     | method      | limit/base | current      | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >25        | <b>&lt;1</b> | 0        | ---      |
| Sodium       | ppm | ASTM D5185m |            | <b>15</b>    | 19       | ---      |
| Potassium    | ppm | ASTM D5185m | >20        | <b>3</b>     | 4        | ---      |
| Water        | %   | ASTM D6304  | >0.05      | <b>0.014</b> | 0.017    | ---      |
| ppm Water    | ppm | ASTM D6304  | >500       | <b>140</b>   | 176.3    | ---      |

| FLUID CLEANLINESS |  | method       | limit/base | current         | history1 | history2 |
|-------------------|--|--------------|------------|-----------------|----------|----------|
| Particles >4µm    |  | ASTM D7647   |            | <b>1789</b>     | 3677     | ---      |
| Particles >6µm    |  | ASTM D7647   | >1300      | <b>743</b>      | 1120     | ---      |
| Particles >14µm   |  | ASTM D7647   | >80        | <b>53</b>       | 78       | ---      |
| Particles >21µm   |  | ASTM D7647   | >20        | <b>8</b>        | 26       | ---      |
| Particles >38µm   |  | ASTM D7647   | >4         | <b>1</b>        | 2        | ---      |
| Particles >71µm   |  | ASTM D7647   | >3         | <b>0</b>        | 0        | ---      |
| Oil Cleanliness   |  | ISO 4406 (c) | >--/17/13  | <b>18/17/13</b> | 19/17/13 | ---      |

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

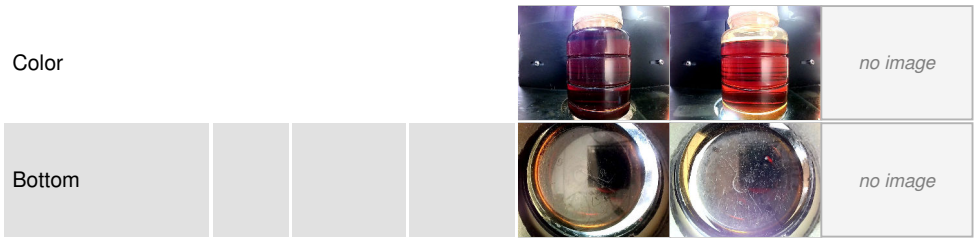
# OIL ANALYSIS REPORT



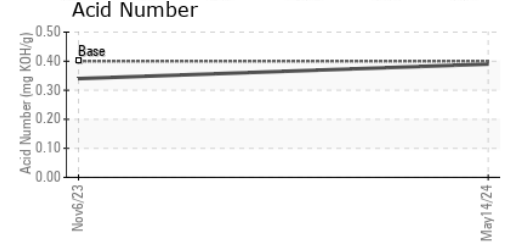
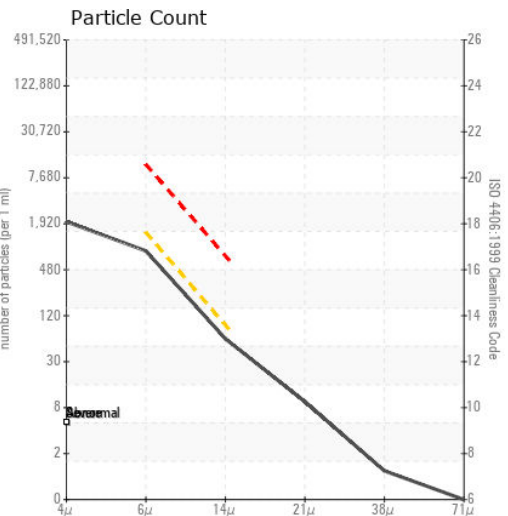
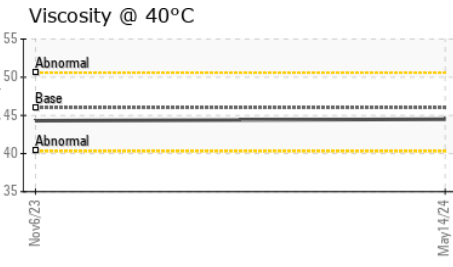
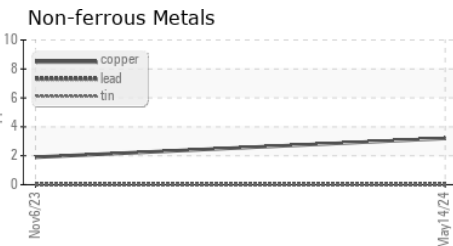
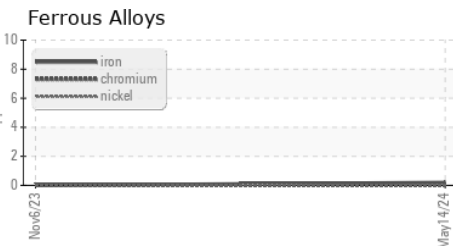
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | ---      |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | ---      |
|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

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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC125225 **Received** : 10 Jun 2024  
**Lab Number** : 06205458 **Tested** : 12 Jun 2024  
**Unique Number** : 11072919 **Diagnosed** : 13 Jun 2024 - Don Baldrige  
**Test Package** : IND 2

**DICKS SPORTING GOODS**  
 655 PERRY RD  
 PLAINFIELD, IN  
 US 46231  
 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)