



# PROBLEM SUMMARY

Sample Rating Trend



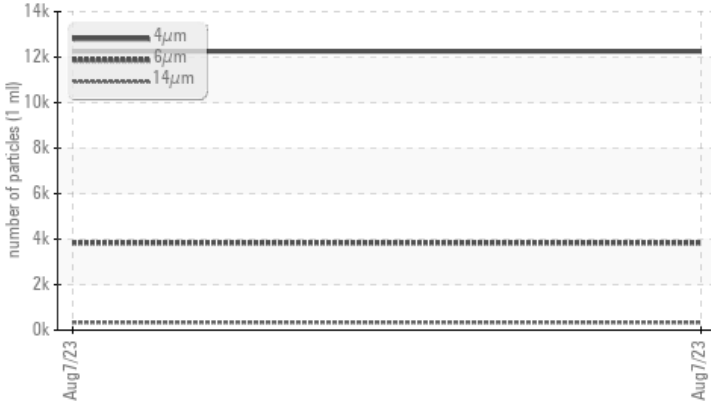
ISO



Machine Id  
**KAESER DSD250 6840715 (S/N 1185)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) S-460 (--- GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



## RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

| Sample Status   |              |           | <b>ABNORMAL</b>   | --- | --- |
|-----------------|--------------|-----------|-------------------|-----|-----|
| Particles >6µm  | ASTM D7647   | >1300     | ▲ <b>3836</b>     | --- | --- |
| Particles >14µm | ASTM D7647   | >80       | ▲ <b>337</b>      | --- | --- |
| Particles >21µm | ASTM D7647   | >20       | ▲ <b>114</b>      | --- | --- |
| Particles >38µm | ASTM D7647   | >4        | ▲ <b>7</b>        | --- | --- |
| Oil Cleanliness | ISO 4406 (c) | >--/17/13 | ▲ <b>21/19/16</b> | --- | --- |

Customer Id: RECPIT  
 Sample No.: KC108941  
 Lab Number: 05924855  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Jonathan Hester +1 919-379-4092 x4092  
[jhester@wearcheckusa.com](mailto:jhester@wearcheckusa.com)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**KAESER DSD250 6840715 (S/N 1185)**  
 Component  
**Compressor**  
 Fluid  
**KAESER SIGMA (OEM) S-460 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

The 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>KC108941</b>    | ---      | ---      |
| Sample Date        | Client Info |             |            | <b>07 Aug 2023</b> | ---      | ---      |
| Machine Age        | hrs         | Client Info |            | <b>24508</b>       | ---      | ---      |
| Oil Age            | hrs         | Client Info |            | <b>4000</b>        | ---      | ---      |
| Oil Changed        | Client Info |             |            | <b>Not 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>0</b> | ---      | ---      |
| Lead        | ppm | ASTM D5185m | >10        | <b>0</b> | ---      | ---      |
| Copper      | ppm | ASTM D5185m | >50        | <b>9</b> | ---      | ---      |
| Tin         | ppm | ASTM D5185m | >10        | <b>0</b> | ---      | ---      |
| Vanadium    | ppm | ASTM D5185m |            | <b>0</b> | ---      | ---      |
| Cadmium     | ppm | ASTM D5185m |            | <b>0</b> | ---      | ---      |

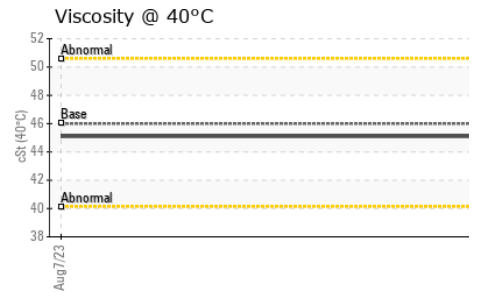
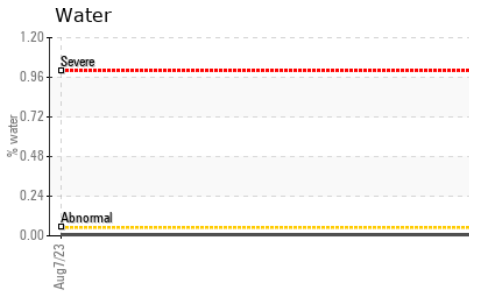
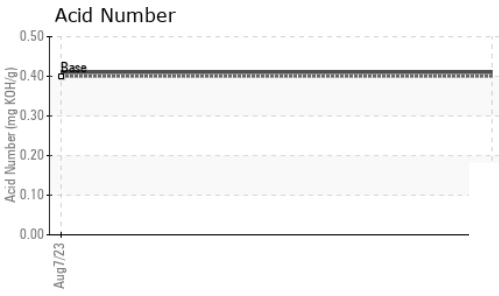
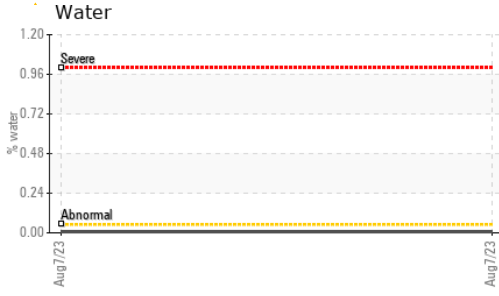
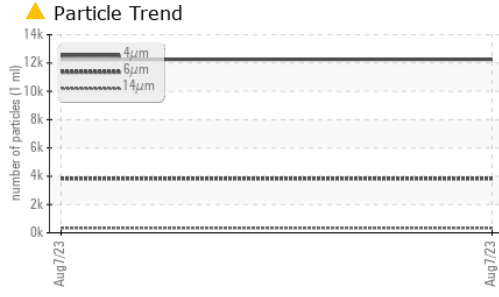
| ADDITIVES  |     | method      | limit/base | current      | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron      | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Barium     | ppm | ASTM D5185m | 90         | <b>0</b>     | ---      | ---      |
| Molybdenum | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Manganese  | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Magnesium  | ppm | ASTM D5185m | 90         | <b>&lt;1</b> | ---      | ---      |
| Calcium    | ppm | ASTM D5185m | 2          | <b>0</b>     | ---      | ---      |
| Phosphorus | ppm | ASTM D5185m |            | <b>5</b>     | ---      | ---      |
| Zinc       | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |

| CONTAMINANTS |     | method      | limit/base | current      | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >25        | <b>&lt;1</b> | ---      | ---      |
| Sodium       | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Potassium    | ppm | ASTM D5185m | >20        | <b>&lt;1</b> | ---      | ---      |
| Water        | %   | ASTM D6304  | >0.05      | <b>0.007</b> | ---      | ---      |
| ppm Water    | ppm | ASTM D6304  | >500       | <b>72.5</b>  | ---      | ---      |

| FLUID CLEANLINESS |  | method       | limit/base | current           | history1 | history2 |
|-------------------|--|--------------|------------|-------------------|----------|----------|
| Particles >4µm    |  | ASTM D7647   |            | <b>12251</b>      | ---      | ---      |
| Particles >6µm    |  | ASTM D7647   | >1300      | ▲ <b>3836</b>     | ---      | ---      |
| Particles >14µm   |  | ASTM D7647   | >80        | ▲ <b>337</b>      | ---      | ---      |
| Particles >21µm   |  | ASTM D7647   | >20        | ▲ <b>114</b>      | ---      | ---      |
| Particles >38µm   |  | ASTM D7647   | >4         | ▲ <b>7</b>        | ---      | ---      |
| Particles >71µm   |  | ASTM D7647   | >3         | <b>0</b>          | ---      | ---      |
| Oil Cleanliness   |  | ISO 4406 (c) | >--/17/13  | ▲ <b>21/19/16</b> | ---      | ---      |

| FLUID DEGRADATION |          | method     | limit/base | current     | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN)  | mg KOH/g | ASTM D8045 | 0.4        | <b>0.41</b> | ---      | ---      |

# OIL ANALYSIS REPORT

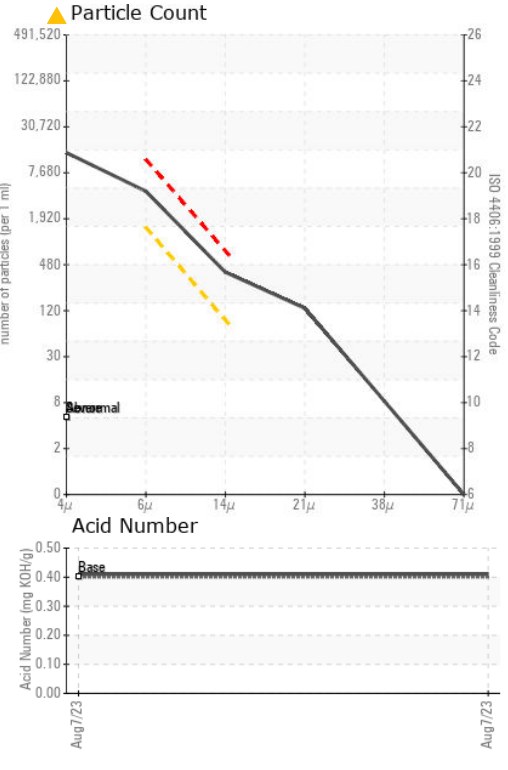
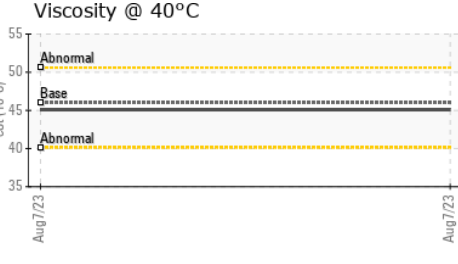
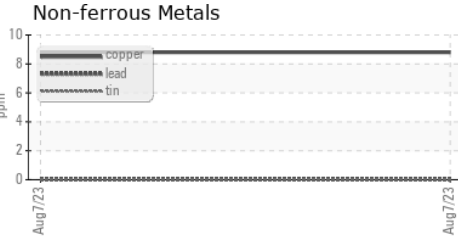
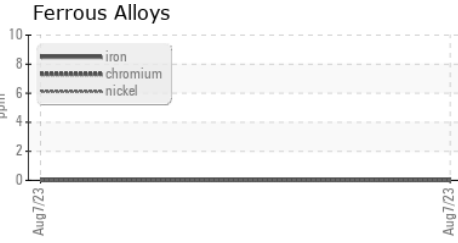


| VISUAL           | method | limit/base | current | history1 | history2 |     |
|------------------|--------|------------|---------|----------|----------|-----|
| White Metal      | scalar | *Visual    | NONE    | NONE     | ---      | --- |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | ---      | --- |
| 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  | 46      | 45.1     | ---      | --- |

| 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.** : KC108941 **Received** : 15 Aug 2023  
**Lab Number** : 05924855 **Diagnosed** : 16 Aug 2023  
**Unique Number** : 10604802 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2

**RECYCLE MGMT.**  
 400 GRAND AVENUE  
 PITTSBURG, PA  
 US 15225  
 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)