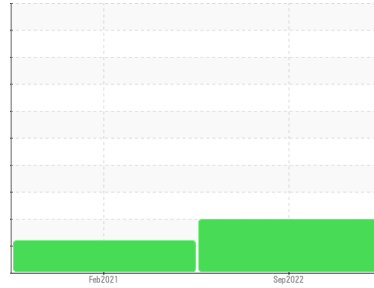




# PROBLEM SUMMARY

Sample Rating Trend



ISO

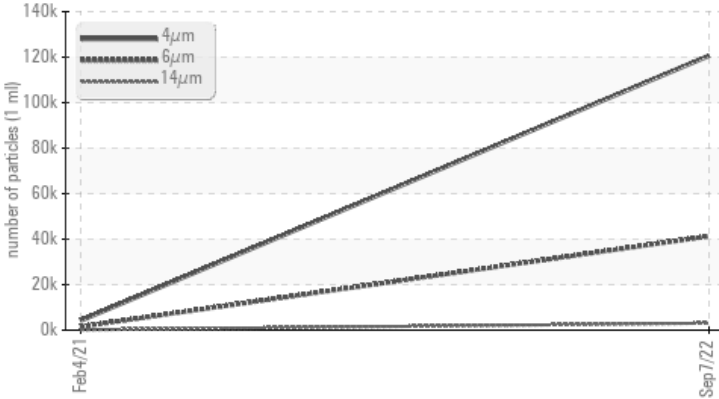


Machine Id  
**3057932 (S/N 1267)**

Component  
**Compressor**  
Fluid  
**KAESER SIGMA (OEM) M-460 (--- GAL)**

## COMPONENT CONDITION SUMMARY

▲ Particle Trend



## 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.

## PROBLEMATIC TEST RESULTS

| Sample Status   |              |           | ABNORMAL          | ATTENTION | --- |
|-----------------|--------------|-----------|-------------------|-----------|-----|
| Particles >6µm  | ASTM D7647   | >1300     | ▲ <b>41279</b>    | ▲ 1513    | --- |
| Particles >14µm | ASTM D7647   | >80       | ▲ <b>3071</b>     | ▲ 138     | --- |
| Particles >21µm | ASTM D7647   | >20       | ▲ <b>690</b>      | ▲ 32      | --- |
| Particles >38µm | ASTM D7647   | >4        | ▲ <b>10</b>       | 2         | --- |
| Oil Cleanliness | ISO 4406 (c) | >--/17/13 | ▲ <b>24/23/19</b> | ▲ 18/14   | --- |

Customer Id: NEWFRA  
Sample No.: KCP49349  
Lab Number: 05640356  
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Doug Bogart +1 (800)237-1369 x4016  
[dougb@wearcheckusa.com](mailto:dougb@wearcheckusa.com)

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

## RECOMMENDED ACTIONS

| Action        | Status | Date | Done By | Description   |
|---------------|--------|------|---------|---|
| Change Fluid  | ---    | ---  | ?       | Oil and filter change at the time of sampling has been noted. |
| Change Filter | ---    | ---  | ?       | Oil and filter change at the time of sampling has been noted. |

## HISTORICAL DIAGNOSIS

**04 Feb 2021 Diag: Don Baldrige**

ISO



Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

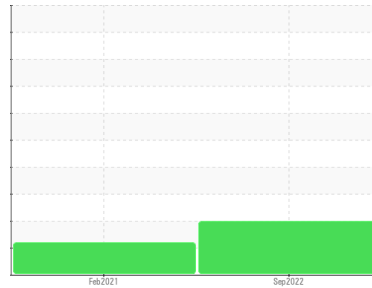
view report





# OIL ANALYSIS REPORT

## Sample Rating Trend



ISO



Machine Id  
**3057932 (S/N 1267)**

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 condition of the oil is suitable for further service.

| SAMPLE INFORMATION |             | method      | limit/base | current            | history1    | history2 |
|--------------------|-------------|-------------|------------|--------------------|-------------|----------|
| Sample Number      | Client Info |             |            | <b>KCP49349</b>    | KCP27855    | ---      |
| Sample Date        | Client Info |             |            | <b>07 Sep 2022</b> | 04 Feb 2021 | ---      |
| Machine Age        | hrs         | Client Info |            | <b>29721</b>       | 26090       | ---      |
| Oil Age            | hrs         | Client Info |            | <b>3631</b>        | 3131        | ---      |
| Oil Changed        | Client Info |             |            | <b>Changed</b>     | Changed     | ---      |
| Sample Status      |             |             |            | <b>ABNORMAL</b>    | ATTENTION   | ---      |

| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185m | >50        | <b>&lt;1</b> | <1       | ---      |
| 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>&lt;1</b> | 0        | ---      |
| Aluminum    | ppm | ASTM D5185m | >10        | <b>&lt;1</b> | <1       | ---      |
| Lead        | ppm | ASTM D5185m | >10        | <b>&lt;1</b> | 0        | ---      |
| Copper      | ppm | ASTM D5185m | >50        | <b>12</b>    | 10       | ---      |
| Tin         | ppm | ASTM D5185m | >10        | <b>&lt;1</b> | <1       | ---      |
| Antimony    | ppm | ASTM D5185m |            | <b>---</b>   | 0        | ---      |
| Vanadium    | ppm | ASTM D5185m |            | <b>0</b>     | 0        | ---      |
| Cadmium     | ppm | ASTM D5185m |            | <b>&lt;1</b> | 0        | ---      |

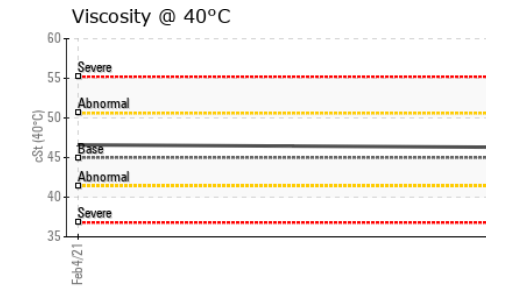
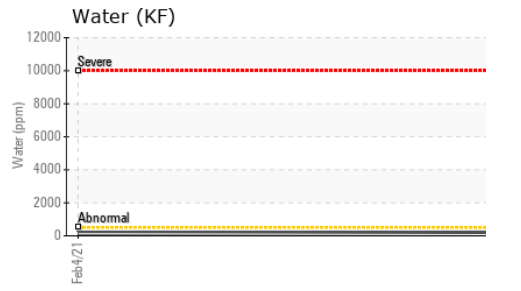
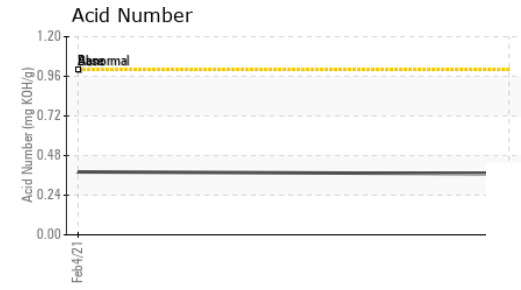
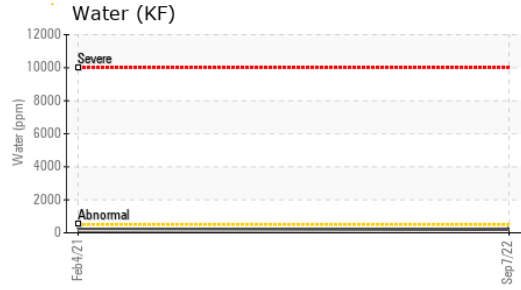
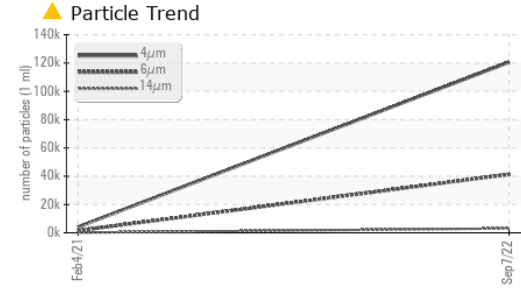
| ADDITIVES  |     | method      | limit/base | current      | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron      | ppm | ASTM D5185m | 0          | <b>0</b>     | 12       | ---      |
| Barium     | ppm | ASTM D5185m | 90         | <b>0</b>     | 0        | ---      |
| Molybdenum | ppm | ASTM D5185m | 0          | <b>0</b>     | 0        | ---      |
| Manganese  | ppm | ASTM D5185m |            | <b>&lt;1</b> | 0        | ---      |
| Magnesium  | ppm | ASTM D5185m | 100        | <b>25</b>    | 31       | ---      |
| Calcium    | ppm | ASTM D5185m | 0          | <b>&lt;1</b> | 0        | ---      |
| Phosphorus | ppm | ASTM D5185m | 0          | <b>1</b>     | 2        | ---      |
| Zinc       | ppm | ASTM D5185m | 0          | <b>47</b>    | 60       | ---      |
| Sulfur     | ppm | ASTM D5185m | 23500      | <b>17942</b> | 17823    | ---      |

| CONTAMINANTS |     | method      | limit/base | current      | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >25        | <b>7</b>     | 10       | ---      |
| Sodium       | ppm | ASTM D5185m |            | <b>10</b>    | 5        | ---      |
| Potassium    | ppm | ASTM D5185m | >20        | <b>2</b>     | 0        | ---      |
| Water        | %   | ASTM D6304  | >0.05      | <b>0.021</b> | 0.015    | ---      |
| ppm Water    | ppm | ASTM D6304  | >500       | <b>216.7</b> | 155.9    | ---      |

| FLUID CLEANLINESS |  | method       | limit/base | current           | history1 | history2 |
|-------------------|--|--------------|------------|-------------------|----------|----------|
| Particles >4µm    |  | ASTM D7647   |            | <b>120625</b>     | 4169     | ---      |
| Particles >6µm    |  | ASTM D7647   | >1300      | <b>▲ 41279</b>    | ▲ 1513   | ---      |
| Particles >14µm   |  | ASTM D7647   | >80        | <b>▲ 3071</b>     | ▲ 138    | ---      |
| Particles >21µm   |  | ASTM D7647   | >20        | <b>▲ 690</b>      | ▲ 32     | ---      |
| Particles >38µm   |  | ASTM D7647   | >4         | <b>▲ 10</b>       | 2        | ---      |
| Particles >71µm   |  | ASTM D7647   | >3         | <b>0</b>          | 0        | ---      |
| Oil Cleanliness   |  | ISO 4406 (c) | >--/17/13  | <b>▲ 24/23/19</b> | ▲ 18/14  | ---      |

| FLUID DEGRADATION |          | method     | limit/base | current     | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN)  | mg KOH/g | ASTM D8045 | 1.0        | <b>0.37</b> | 0.381    | ---      |

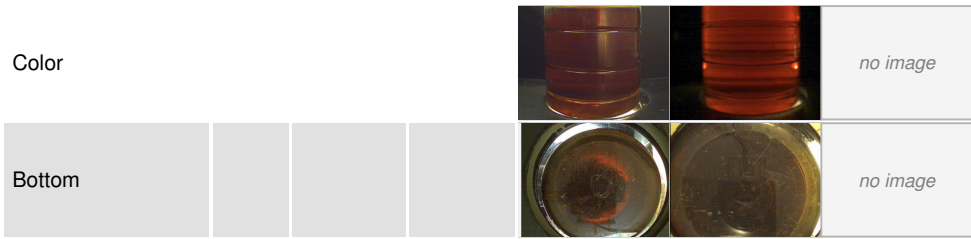
# OIL ANALYSIS REPORT



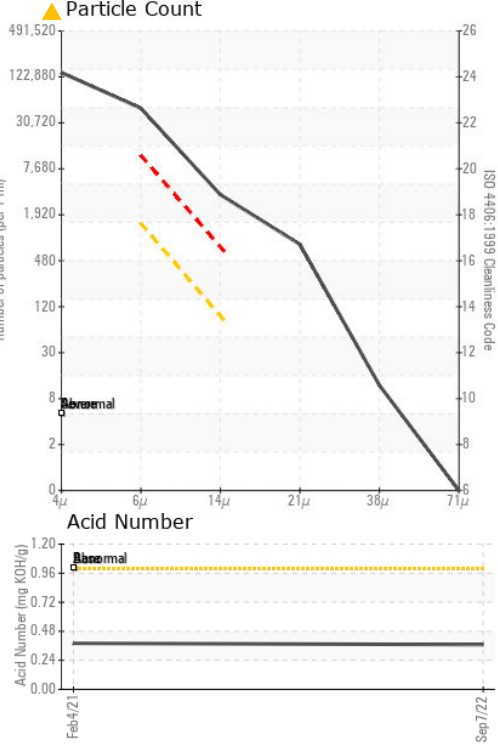
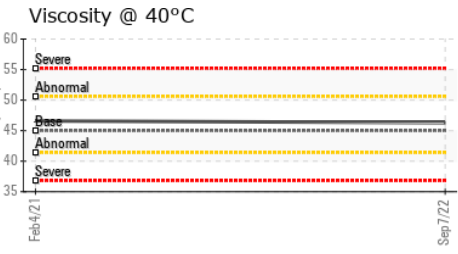
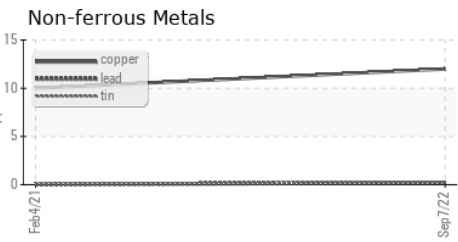
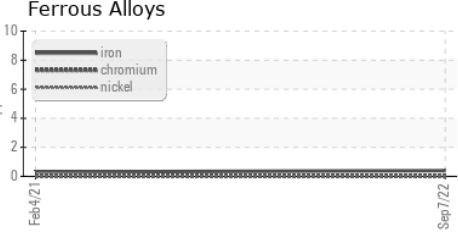
| PARAMETER        | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | ---      |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | ---      |
| 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      | 46.3     | 46.6     |

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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCP49349 **Received** : 13 Sep 2022  
**Lab Number** : 05640356 **Diagnosed** : 15 Sep 2022  
**Unique Number** : 10129886 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**NEW VIEW MARBLE AND GRANITE**  
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 US 02038  
 Contact: Service Manager  
 newviewgranite1@gmail.com  
 T:  
 F:

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)