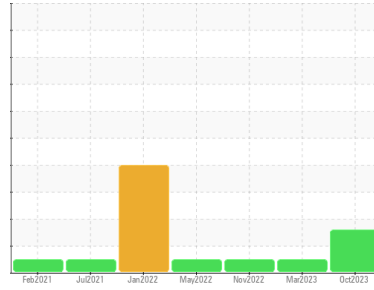




# PROBLEM SUMMARY

Area  
**KAESER M-460**  
 Machine Id  
**KAESER AS 25T 1287 - JW SPEAKER**  
 Component  
**Compressor**

Sample Rating Trend



**WATER**



## COMPONENT CONDITION SUMMARY

▲ Water (KF)



## RECOMMENDATION

We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

| Sample Status    |        |            |       | ATTENTION      | NORMAL | NORMAL |
|------------------|--------|------------|-------|----------------|--------|--------|
| Water            | %      | ASTM D6304 | >0.05 | ▲ <b>0.390</b> | ---    | ---    |
| ppm Water        | ppm    | ASTM D6304 | >500  | ▲ <b>3900</b>  | ---    | ---    |
| Emulsified Water | scalar | *Visual    | >0.05 | ▲ <b>0.2%</b>  | NEG    | NEG    |

Customer Id: UCZORPEW  
 Sample No.: UCZ05981278  
 Lab Number: 05981278  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

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   |
|-----------------|--------|------|---------|---|
| Water Drain-off | ---    | ---  | ?       | We advise that you follow the water drain-off procedure for this component. |

## HISTORICAL DIAGNOSIS

### 30 Mar 2023 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 04 Nov 2022 Diag: Angela Borella

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 24 May 2022 Diag: Angela Borella

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

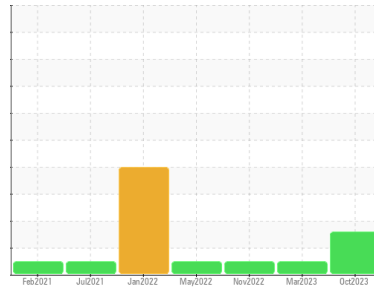
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Area  
**KAESER M-460**  
 Machine Id  
**KAESER AS 25T 1287 - JW SPEAKER**  
 Component  
**Compressor**

## DIAGNOSIS

### Recommendation

We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

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 suitable for further service.

## SAMPLE INFORMATION

|               | method      | limit/base  | current            | history1    | history2    |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info |             | <b>UCZ05981278</b> | UCZ05814009 | UCZ05689707 |
| Sample Date   | Client Info |             | <b>10 Oct 2023</b> | 30 Mar 2023 | 04 Nov 2022 |
| Machine Age   | hrs         | Client Info | <b>10691</b>       | 9992        | 8236        |
| Oil Age       | hrs         | Client Info | <b>699</b>         | 3441        | 1685        |
| Oil Changed   | Client Info |             | <b>Not Changed</b> | Changed     | Not Changed |
| Sample Status |             |             | <b>ATTENTION</b>   | NORMAL      | NORMAL      |

## WEAR METALS

|          | method | limit/base      | current  | history1 | history2 |
|----------|--------|-----------------|----------|----------|----------|
| Iron     | ppm    | ASTM D5185m >50 | <b>0</b> | 0        | 0        |
| Chromium | ppm    | ASTM D5185m >10 | <b>0</b> | 0        | 0        |
| Nickel   | ppm    | ASTM D5185m >3  | <b>0</b> | 0        | 0        |
| Titanium | ppm    | ASTM D5185m >3  | <b>0</b> | 0        | 0        |
| Silver   | ppm    | ASTM D5185m >2  | <b>0</b> | 0        | 0        |
| Aluminum | ppm    | ASTM D5185m >10 | <b>0</b> | <1       | <1       |
| Lead     | ppm    | ASTM D5185m >10 | <b>0</b> | 0        | 0        |
| Copper   | ppm    | ASTM D5185m >50 | <b>2</b> | 6        | 4        |
| Tin      | ppm    | ASTM D5185m >10 | <b>0</b> | 0        | 0        |
| Vanadium | ppm    | ASTM D5185m     | <b>0</b> | 0        | 0        |
| Cadmium  | ppm    | ASTM D5185m     | <b>0</b> | 0        | 0        |

## ADDITIVES

|            | method | limit/base        | current      | history1 | history2 |
|------------|--------|-------------------|--------------|----------|----------|
| Boron      | ppm    | ASTM D5185m 0     | <b>0</b>     | 0        | 0        |
| Barium     | ppm    | ASTM D5185m 90    | <b>27</b>    | 30       | 41       |
| Molybdenum | ppm    | ASTM D5185m 0     | <b>0</b>     | 0        | 0        |
| Manganese  | ppm    | ASTM D5185m       | <b>0</b>     | <1       | 0        |
| Magnesium  | ppm    | ASTM D5185m 100   | <b>52</b>    | 59       | 66       |
| Calcium    | ppm    | ASTM D5185m 0     | <b>0</b>     | 4        | 1        |
| Phosphorus | ppm    | ASTM D5185m 0     | <b>6</b>     | 6        | 24       |
| Zinc       | ppm    | ASTM D5185m 0     | <b>0</b>     | 12       | 0        |
| Sulfur     | ppm    | ASTM D5185m 23500 | <b>16469</b> | 22732    | 22454    |

## CONTAMINANTS

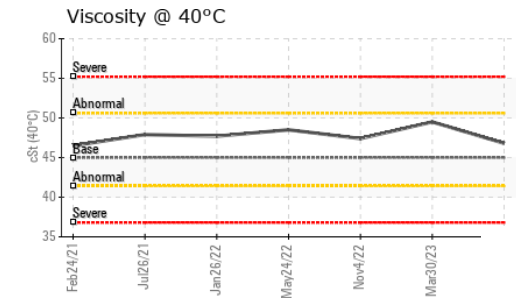
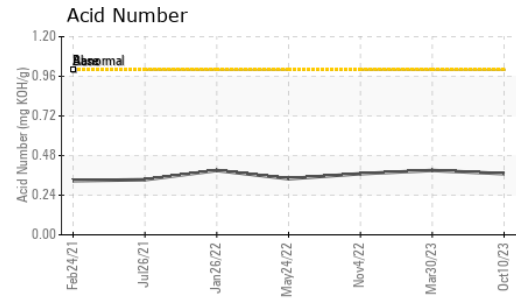
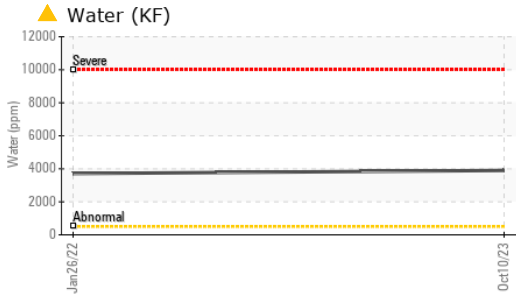
|           | method | limit/base       | current        | history1 | history2 |
|-----------|--------|------------------|----------------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >25  | <b>&lt;1</b>   | 0        | <1       |
| Sodium    | ppm    | ASTM D5185m      | <b>10</b>      | 26       | 12       |
| Potassium | ppm    | ASTM D5185m >20  | <b>0</b>       | 4        | 0        |
| Water     | %      | ASTM D6304 >0.05 | <b>▲ 0.390</b> | ---      | ---      |
| ppm Water | ppm    | ASTM D6304 >500  | <b>▲ 3900</b>  | ---      | ---      |

## FLUID DEGRADATION

|                  | method   | limit/base     | current     | history1 | history2 |
|------------------|----------|----------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 1.0 | <b>0.37</b> | 0.39     | 0.37     |



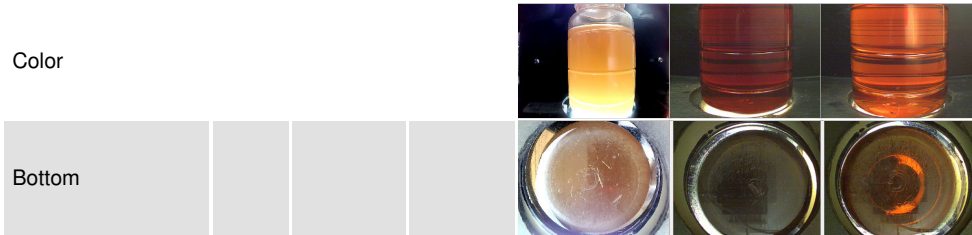
# OIL ANALYSIS REPORT



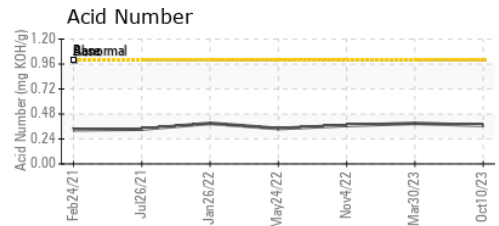
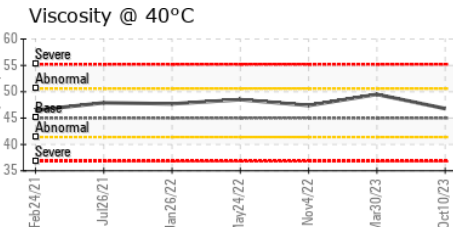
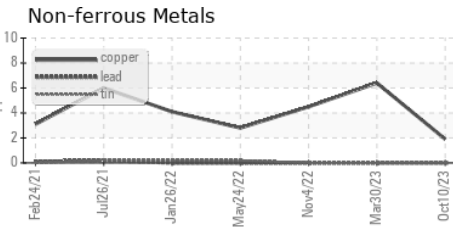
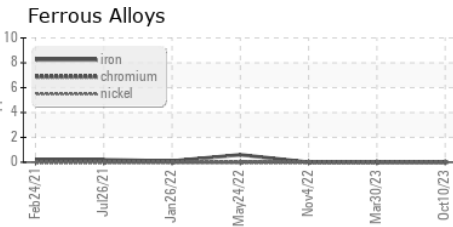
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | NONE     |
|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

| FLUID PROPERTIES | method | limit/base   | current | history1 | history2 |
|------------------|--------|--------------|---------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D445 45 | 46.8    | 49.5     | 47.4     |

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



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCZ05981278 **Received** : 17 Oct 2023  
**Lab Number** : 05981278 **Diagnosed** : 19 Oct 2023  
**Unique Number** : 10698573 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF )

**ZORN COMP & EQUIPMENT INC - MAIN**  
 1335 E WISCONSIN AVE  
 PEWAUKEE, WI  
 US 53072  
 Contact: CHRIS BOCK  
 Chris.Bock@zornair.com  
 T: (800)476-4637  
 F: (262)695-7017

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)