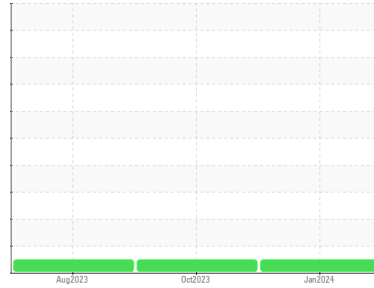




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**SYNOIL 8K FG**  
 Machine Id  
**QUINCY 96673H - MSI EXPRESS**  
 Component  
**Compressor**

## 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.

### 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>UCZ06074903</b> | UCZ05997432 | UCZ05932159 |
| Sample Date   | Client Info |             | <b>20 Jan 2024</b> | 27 Oct 2023 | 04 Aug 2023 |
| Machine Age   | hrs         | Client Info | <b>143884</b>      | 142369      | 86507       |
| Oil Age       | hrs         | Client Info | <b>5695</b>        | 4180        | 4465        |
| Oil Changed   |             | Client Info | <b>N/A</b>         | N/A         | N/A         |
| Sample Status |             |             | <b>NORMAL</b>      | NORMAL      | NORMAL      |

## CONTAMINATION

|       | method    | limit/base | current    | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.1       | <b>NEG</b> | NEG      | NEG      |

## WEAR METALS

|          | method | limit/base      | current      | history1 | history2 |
|----------|--------|-----------------|--------------|----------|----------|
| Iron     | ppm    | ASTM D5185m >50 | <b>0</b>     | 0        | 0        |
| Chromium | ppm    | ASTM D5185m >5  | <b>0</b>     | <1       | 0        |
| Nickel   | ppm    | ASTM D5185m     | <b>&lt;1</b> | 0        | 0        |
| Titanium | ppm    | ASTM D5185m     | <b>0</b>     | 0        | 0        |
| Silver   | ppm    | ASTM D5185m     | <b>0</b>     | 0        | 0        |
| Aluminum | ppm    | ASTM D5185m >15 | <b>&lt;1</b> | <1       | <1       |
| Lead     | ppm    | ASTM D5185m >65 | <b>0</b>     | 0        | 0        |
| Copper   | ppm    | ASTM D5185m >65 | <b>0</b>     | <1       | <1       |
| Tin      | ppm    | ASTM D5185m >10 | <b>0</b>     | 0        | 0        |
| Vanadium | ppm    | ASTM D5185m     | <b>0</b>     | 0        | <1       |
| Cadmium  | ppm    | ASTM D5185m     | <b>0</b>     | 0        | 0        |

## ADDITIVES

|            | method | limit/base      | current      | history1 | history2 |
|------------|--------|-----------------|--------------|----------|----------|
| Boron      | ppm    | ASTM D5185m 1   | <b>0</b>     | 0        | 0        |
| Barium     | ppm    | ASTM D5185m 0.3 | <b>0</b>     | 0        | 0        |
| Molybdenum | ppm    | ASTM D5185m 0   | <b>0</b>     | 0        | 0        |
| Manganese  | ppm    | ASTM D5185m 0   | <b>&lt;1</b> | 0        | <1       |
| Magnesium  | ppm    | ASTM D5185m 0   | <b>&lt;1</b> | <1       | 0        |
| Calcium    | ppm    | ASTM D5185m 0.5 | <b>&lt;1</b> | 0        | 0        |
| Phosphorus | ppm    | ASTM D5185m 536 | <b>106</b>   | 71       | 110      |
| Zinc       | ppm    | ASTM D5185m 0.2 | <b>0</b>     | 0        | 0        |
| Sulfur     | ppm    | ASTM D5185m 649 | <b>433</b>   | 390      | 615      |

## CONTAMINANTS

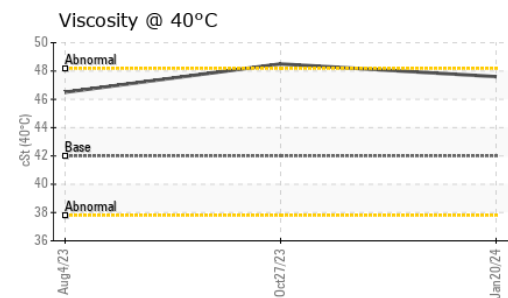
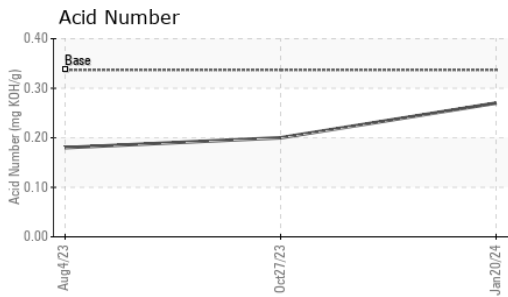
|           | method | limit/base      | current      | history1 | history2 |
|-----------|--------|-----------------|--------------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >35 | <b>4</b>     | 7        | 2        |
| Sodium    | ppm    | ASTM D5185m     | <b>&lt;1</b> | 0        | 0        |
| Potassium | ppm    | ASTM D5185m >20 | <b>0</b>     | 1        | <1       |

## FLUID DEGRADATION

|                  | method   | limit/base       | current     | history1 | history2 |
|------------------|----------|------------------|-------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D8045 0.337 | <b>0.27</b> | 0.20     | 0.18     |



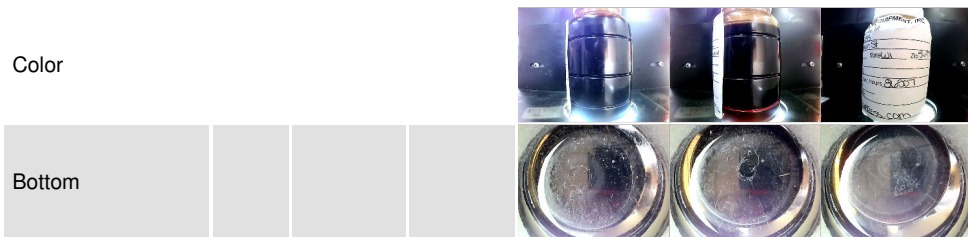
# OIL ANALYSIS REPORT



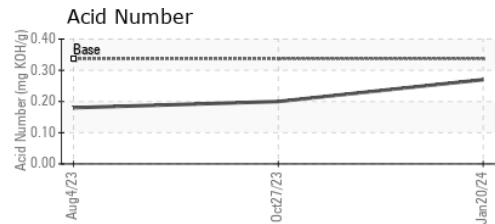
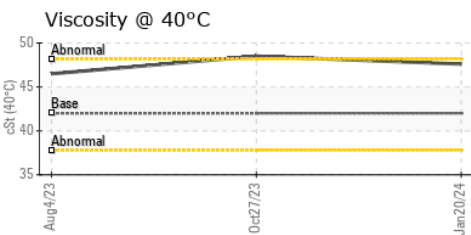
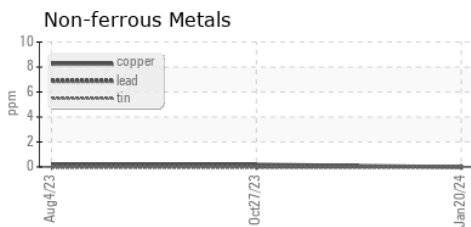
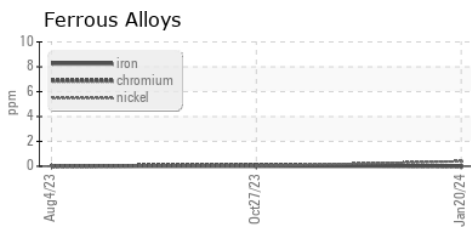
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | NONE     |
| Precipitate      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Silt             | scalar | *Visual    | NONE    | NONE     | NONE     |
| Debris           | scalar | *Visual    | NONE    | NONE     | NONE     |
| Sand/Dirt        | scalar | *Visual    | NONE    | NONE     | NONE     |
| Appearance       | scalar | *Visual    | NORML   | NORML    | NORML    |
| Odor             | scalar | *Visual    | NORML   | NORML    | NORML    |
| Emulsified Water | scalar | *Visual    | >0.1    | NEG      | NEG      |
| Free Water       | scalar | *Visual    |         | NEG      | NEG      |

| FLUID PROPERTIES | method | limit/base     | current     | history1 | history2 |
|------------------|--------|----------------|-------------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D445 42.0 | <b>47.6</b> | 48.5     | 46.5     |

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



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : UCZ06074903 **Recieved** : 30 Jan 2024  
**Lab Number** : **06074903** **Diagnosed** : 01 Feb 2024  
**Unique Number** : 10856994 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**ZORN COMP & EQUIPMENT CO (GB)**  
 733 POTTS AVE  
 GREEN BAY, WI  
 US 54304

Contact: DEAN SCHAD  
 dean.schad@zornair.com  
 T: (920)391-8121  
 F: (920)499-1168

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)