



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**SYNOIL 8K**  
 Machine Id  
**MOCC370192 - CITY OF DEPERE**  
 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>UCZ05937934</b> | ---      | ---      |
| Sample Date        | Client Info |             |            | <b>24 Aug 2023</b> | ---      | ---      |
| Machine Age        | hrs         | Client Info |            | <b>8059</b>        | ---      | ---      |
| Oil Age            | hrs         | Client Info |            | <b>684</b>         | ---      | ---      |
| Oil Changed        | Client Info |             |            | <b>N/A</b>         | ---      | ---      |
| Sample Status      |             |             |            | <b>NORMAL</b>      | ---      | ---      |

| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185m | >50        | <b>1</b>     | ---      | ---      |
| Chromium    | ppm | ASTM D5185m | >5         | <b>0</b>     | ---      | ---      |
| Nickel      | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Titanium    | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Silver      | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Aluminum    | ppm | ASTM D5185m | >15        | <b>&lt;1</b> | ---      | ---      |
| Lead        | ppm | ASTM D5185m | >65        | <b>0</b>     | ---      | ---      |
| Copper      | ppm | ASTM D5185m | >65        | <b>&lt;1</b> | ---      | ---      |
| Tin         | ppm | ASTM D5185m | >10        | <b>&lt;1</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 | 0.3        | <b>0</b>     | ---      | ---      |
| Barium     | ppm | ASTM D5185m | 0.3        | <b>0</b>     | ---      | ---      |
| Molybdenum | ppm | ASTM D5185m | 0          | <b>0</b>     | ---      | ---      |
| Manganese  | ppm | ASTM D5185m | 0.9        | <b>&lt;1</b> | ---      | ---      |
| Magnesium  | ppm | ASTM D5185m | 0.2        | <b>0</b>     | ---      | ---      |
| Calcium    | ppm | ASTM D5185m | 0.1        | <b>0</b>     | ---      | ---      |
| Phosphorus | ppm | ASTM D5185m | 429        | <b>378</b>   | ---      | ---      |
| Zinc       | ppm | ASTM D5185m | 0.3        | <b>106</b>   | ---      | ---      |
| Sulfur     | ppm | ASTM D5185m | 1336       | <b>1211</b>  | ---      | ---      |

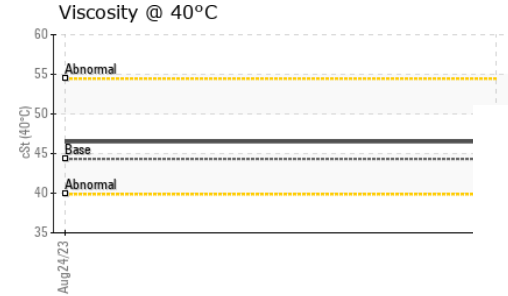
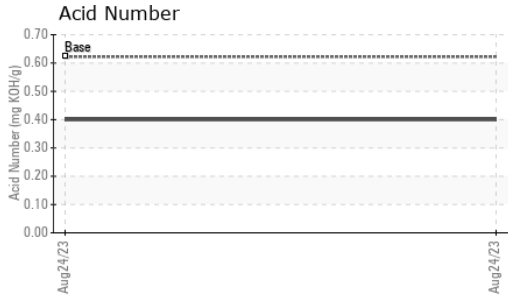
| CONTAMINANTS |     | method      | limit/base | current      | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >35        | <b>&lt;1</b> | ---      | ---      |
| Sodium       | ppm | ASTM D5185m |   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

| FLUID DEGRADATION |          | method     | limit/base | current     | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN)  | mg KOH/g | ASTM D8045 | 0.622      | <b>0.40</b> | ---      | ---      |

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



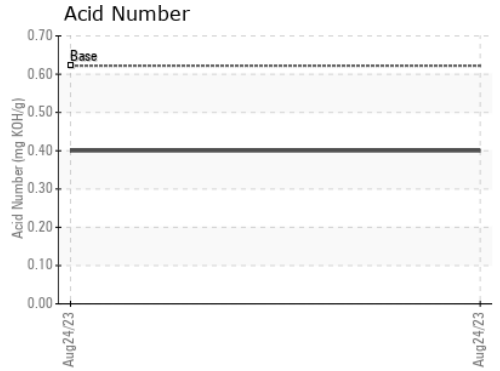
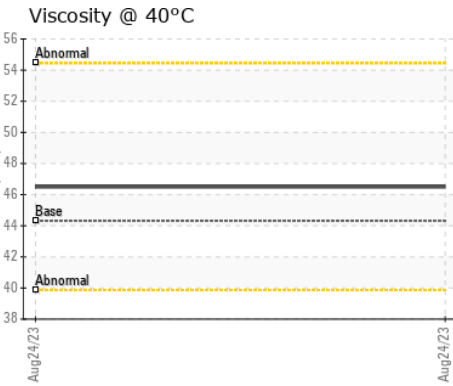
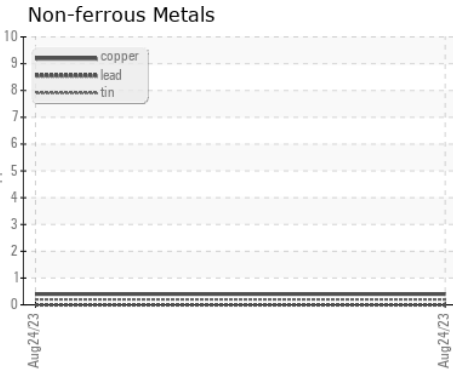
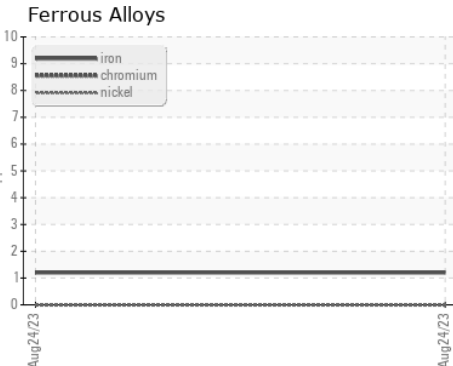
# OIL ANALYSIS REPORT



| FLUID PROPERTIES | method | limit/base | current | history1    | history2 |     |
|------------------|--------|------------|---------|-------------|----------|-----|
| Visc @ 40°C      | cSt    | ASTM D445  | 44.32   | <b>46.5</b> | ---      | --- |

| 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.** : UCZ05937934    **Received** : 29 Aug 2023  
**Lab Number** : **05937934**    **Diagnosed** : 30 Aug 2023  
**Unique Number** : 10628546    **Diagnostician** : Angela Borella  
**Test Package** : IND 2

**ZORN COMP & EQUIPMENT CO (GB)**  
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 GREEN BAY, WI  
 US 54304  
 Contact: DEAN SCHAD  
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 F: (920)499-1168

Certificate L2367  
 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)