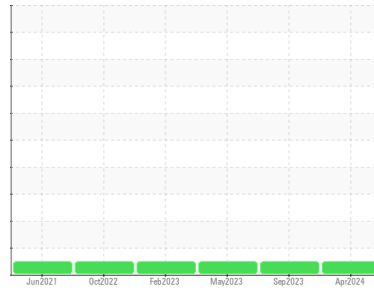




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**INGERSOLL RAND CBV444396**  
 Component  
**Compressor**  
 Fluid  
**INGERSOLL-RAND SSR ULTRA COOLANT (--- QTS)**

### 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>WC0902629</b>   | WC0832543   | WC0782419   |
| Sample Date        | Client Info |             |            | <b>03 Apr 2024</b> | 18 Sep 2023 | 08 May 2023 |
| Machine Age        | hrs         | Client Info |            | <b>13121</b>       | 12023       | 11461       |
| Oil Age            | hrs         | Client Info |            | <b>1098</b>        | 3200        | 0           |
| Oil Changed        | Client Info |             |            | <b>Not Changed</b> | Changed     | Not Changed |
| 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> | 0        | <1       |
| Nickel      | ppm | ASTM D5185m |            | <b>0</b> | 0        | 0        |
| Titanium    | ppm | ASTM D5185m |            | <b>0</b> | 0        | <1       |
| Silver      | ppm | ASTM D5185m |            | <b>0</b> | 0        | 0        |
| Aluminum    | ppm | ASTM D5185m | >15        | <b>0</b> | 0        | <1       |
| Lead        | ppm | ASTM D5185m | >65        | <b>0</b> | 0        | <1       |
| Copper      | ppm | ASTM D5185m | >65        | <b>0</b> | <1       | 0        |
| Tin         | ppm | ASTM D5185m | >10        | <b>0</b> | <1       | <1       |
| Vanadium    | ppm | ASTM D5185m |            | <b>0</b> | <1       | <1       |
| Cadmium     | ppm | ASTM D5185m |            | <b>0</b> | 0        | 0        |

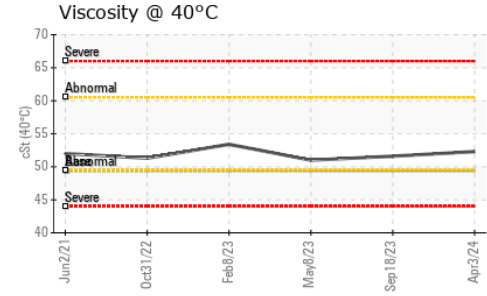
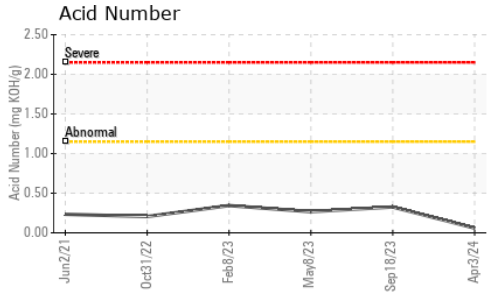
| ADDITIVES  |     | method      | limit/base | current    | history1 | history2 |
|------------|-----|-------------|------------|------------|----------|----------|
| Boron      | ppm | ASTM D5185m | 0          | <b>0</b>   | 0        | <1       |
| Barium     | ppm | ASTM D5185m | 500        | <b>944</b> | 861      | 979      |
| Molybdenum | ppm | ASTM D5185m | 0          | <b>0</b>   | 0        | 0        |
| Manganese  | ppm | ASTM D5185m |            | <b>0</b>   | <1       | <1       |
| Magnesium  | ppm | ASTM D5185m | 0          | <b>0</b>   | 0        | 10       |
| Calcium    | ppm | ASTM D5185m | 0          | <b>4</b>   | 4        | 8        |
| Phosphorus | ppm | ASTM D5185m | 20         | <b>0</b>   | 1        | 3        |
| Zinc       | ppm | ASTM D5185m | 0          | <b>12</b>  | 2        | 20       |
| Sulfur     | ppm | ASTM D5185m | 200        | <b>470</b> | 421      | 332      |

| CONTAMINANTS |     | method      | limit/base | current   | history1 | history2 |
|--------------|-----|-------------|------------|-----------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >35        | <b>12</b> | 4        | 5        |
| Sodium       | ppm | ASTM D5185m |            | <b>27</b> | 21       | 10       |
| Potassium    | ppm | ASTM D5185m | >20        | <b>0</b>  | 1        | 5        |

| FLUID DEGRADATION |          | method     | limit/base | current     | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN)  | mg KOH/g | ASTM D8045 |            | <b>0.06</b> | 0.326    | 0.267    |



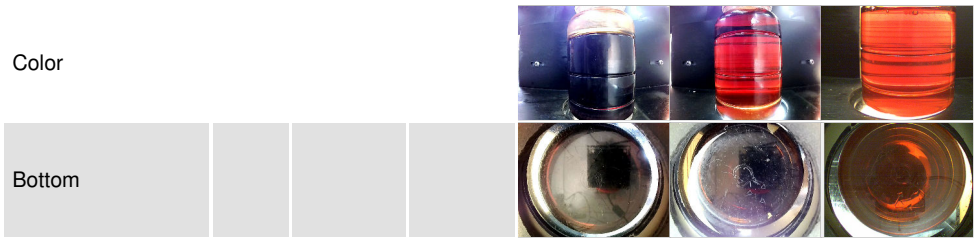
# OIL ANALYSIS REPORT



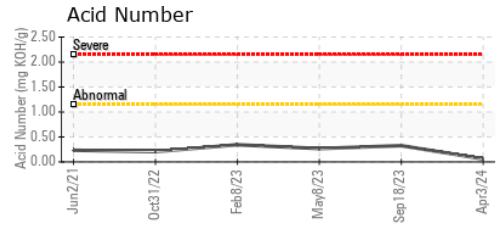
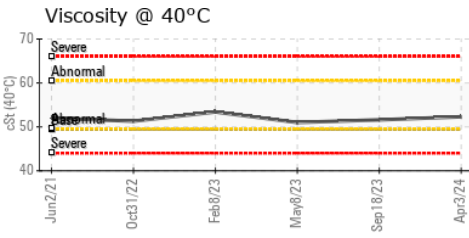
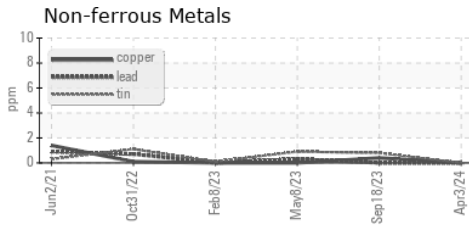
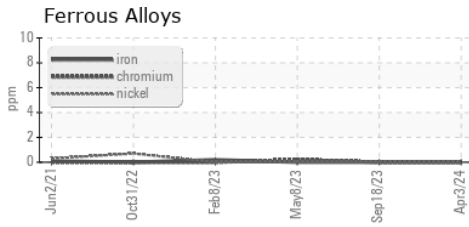
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | LIGHT    |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | NONE     |
| Precipitate      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Silt             | scalar | *Visual    | NONE    | NONE     | NONE     |
| Debris           | scalar | *Visual    | NONE    | LIGHT    | 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  | 52.3    | 51.6     | 51.0     |

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



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0902629      **Received** : 12 Apr 2024  
**Lab Number** : 06147469      **Tested** : 15 Apr 2024  
**Unique Number** : 10977547      **Diagnosed** : 16 Apr 2024 - Sean Felton  
**Test Package** : IND 2

**MERCY ONE MEDICAL CENTER**  
 DES MOINES, IA  
 US 50313  
 Contact: ROB MILES

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)

T:  
F: