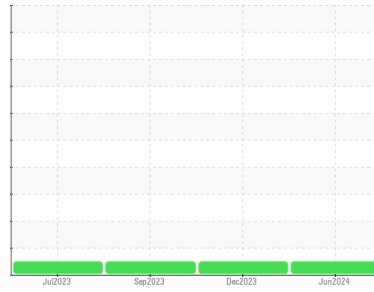




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**QUINCY COMPRESSOR 3 (S/N 93024H)**  
 Component  
**Screw Compressor**  
 Fluid  
**LE MONOLEC SYN 9068 (38 GAL)**

## 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>RP0037235</b>   | RP0035995   | RP0035990   |
| Sample Date        | Client Info |             |            | <b>01 Jun 2024</b> | 04 Dec 2023 | 10 Sep 2023 |
| Machine Age        | hrs         | Client Info |            | <b>83283</b>       | 83251       | 83251       |
| Oil Age            | hrs         | Client Info |            | <b>0</b>           | 83251       | 83251       |
| Oil Changed        | Client Info |             |            | <b>Not Chngd</b>   | N/A         | Not Chngd   |
| Sample Status      |             |             |            | <b>NORMAL</b>      | NORMAL      | NORMAL      |

| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185m | >60        | <b>2</b>     | 0        | 2        |
| Chromium    | ppm | ASTM D5185m | >4         | <b>0</b>     | 0        | 0        |
| Nickel      | ppm | ASTM D5185m |            | <b>0</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 | >5         | <b>0</b>     | 0        | 0        |
| Lead        | ppm | ASTM D5185m | >10        | <b>&lt;1</b> | 0        | 0        |
| Copper      | ppm | ASTM D5185m | >30        | <b>2</b>     | 4        | 3        |
| Tin         | ppm | ASTM D5185m | >15        | <b>0</b>     | 0        | <1       |
| Vanadium    | ppm | ASTM D5185m |            | <b>&lt;1</b> | 0        | 0        |
| Cadmium     | ppm | ASTM D5185m |            | <b>0</b>     | 0        | 0        |

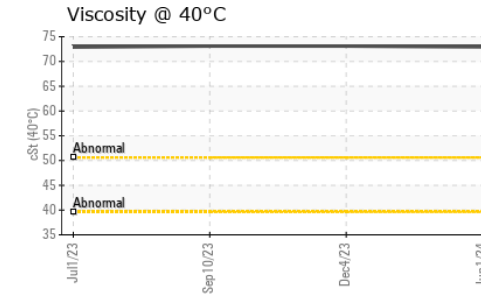
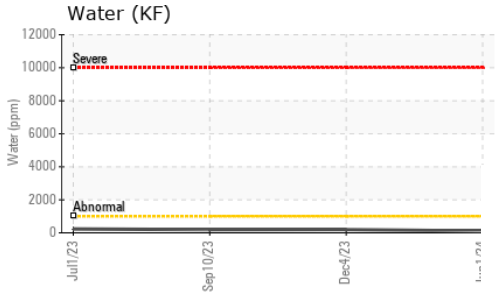
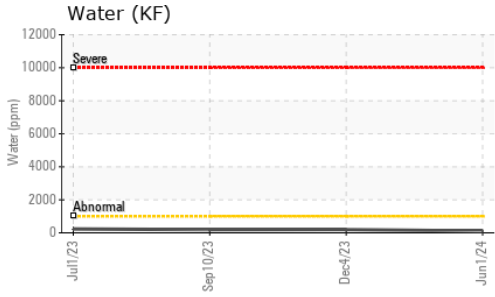
| ADDITIVES  |     | method      | limit/base | current      | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron      | ppm | ASTM D5185m |            | <b>0</b>     | 0        | 0        |
| Barium     | ppm | ASTM D5185m |            | <b>0</b>     | 0        | 0        |
| Molybdenum | ppm | ASTM D5185m |            | <b>0</b>     | 0        | 0        |
| Manganese  | ppm | ASTM D5185m |            | <b>&lt;1</b> | <1       | <1       |
| Magnesium  | ppm | ASTM D5185m |            | <b>&lt;1</b> | 0        | <1       |
| Calcium    | ppm | ASTM D5185m |            | <b>&lt;1</b> | 2        | 0        |
| Phosphorus | ppm | ASTM D5185m |            | <b>23</b>    | 21       | 26       |
| Zinc       | ppm | ASTM D5185m |            | <b>515</b>   | 463      | 512      |

| CONTAMINANTS |     | method      | limit/base | current      | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >50        | <b>9</b>     | 9        | 9        |
| Sodium       | ppm | ASTM D5185m |            | <b>14</b>    | 15       | 14       |
| Potassium    | ppm | ASTM D5185m | >20        | <b>0</b>     | 0        | <1       |
| Water        | %   | ASTM D6304  | >0.1       | <b>0.010</b> | 0.020    | 0.019    |
| ppm Water    | ppm | ASTM D6304  | >1000      | <b>104</b>   | 202      | 192.3    |

| FLUID DEGRADATION |          | method     | limit/base | current     | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN)  | mg KOH/g | ASTM D8045 |            | <b>0.82</b> | 0.78     | 0.86     |

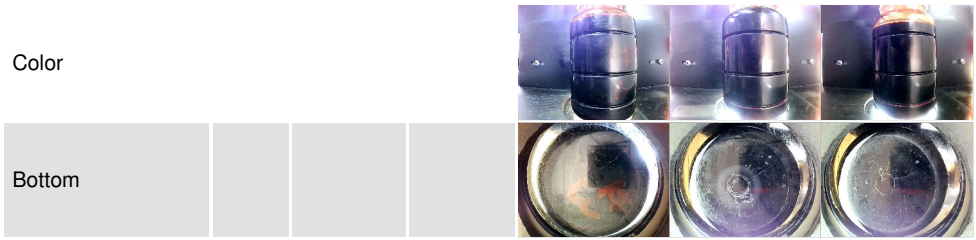
| VISUAL           |        | method  | limit/base | current      | history1 | history2 |
|------------------|--------|---------|------------|--------------|----------|----------|
| White Metal      | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | NONE     |
| Yellow Metal     | scalar | *Visual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

# OIL ANALYSIS REPORT

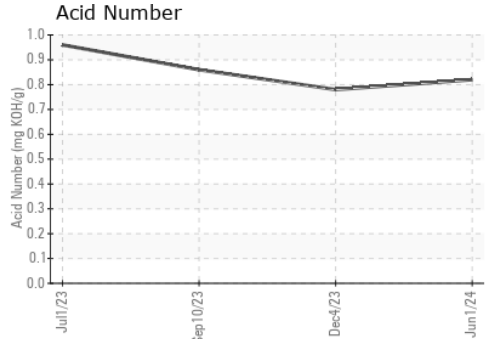
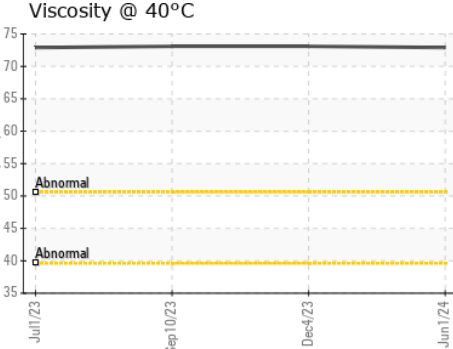
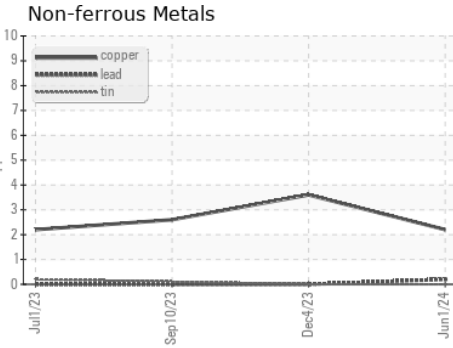
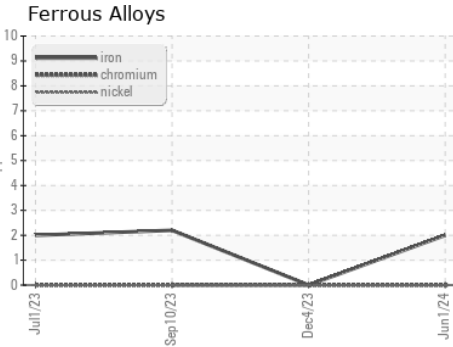


| FLUID PROPERTIES |     | method    | limit/base | current | history1 | history2 |
|------------------|-----|-----------|------------|---------|----------|----------|
| Visc @ 40°C      | cSt | ASTM D445 |            | 72.9    | 73.1     | 73.1     |

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



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0037235  
**Lab Number** : 06202870  
**Unique Number** : 11070331  
**Test Package** : IND 2

**Received** : 07 Jun 2024  
**Tested** : 10 Jun 2024  
**Diagnosed** : 10 Jun 2024 - Don Baldrige

**CARLSTAR GROUP**  
 520 JD YARNELL INDUSTRIAL PKWY  
 CLINTON, TN  
 US 37716  
 Contact: JOEL SPROW

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)

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