



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**I-422**  
 Component  
**Rear Right Final Drive**  
 Fluid  
**SHELL OMALA S4 GX 220 (--- 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 fluid.

### Fluid Condition

The condition of the fluid is acceptable for the time in service.

| SAMPLE INFORMATION |             | method      | limit/base | current            | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|----------|----------|
| Sample Number      | Client Info |             |            | <b>WC0577410</b>   | ---      | ---      |
| Sample Date        | Client Info |             |            | <b>09 Oct 2023</b> | ---      | ---      |
| Machine Age        | hrs         | Client Info |            | <b>7014</b>        | ---      | ---      |
| Oil Age            | hrs         | Client Info |            | <b>511</b>         | ---      | ---      |
| Oil Changed        | Client Info |             |            | <b>Changed</b>     | ---      | ---      |
| Sample Status      |             |             |            | <b>NORMAL</b>      | ---      | ---      |

| WEAR METALS |     | method      | limit/base | current   | history1 | history2 |
|-------------|-----|-------------|------------|-----------|----------|----------|
| Iron        | ppm | ASTM D5185m | >500       | <b>40</b> | ---      | ---      |
| Chromium    | ppm | ASTM D5185m | >10        | <b>0</b>  | ---      | ---      |
| Nickel      | ppm | ASTM D5185m | >10        | <b>0</b>  | ---      | ---      |
| Titanium    | ppm | ASTM D5185m |            | <b>0</b>  | ---      | ---      |
| Silver      | ppm | ASTM D5185m |            | <b>0</b>  | ---      | ---      |
| Aluminum    | ppm | ASTM D5185m | >25        | <b>0</b>  | ---      | ---      |
| Lead        | ppm | ASTM D5185m | >25        | <b>17</b> | ---      | ---      |
| Copper      | ppm | ASTM D5185m | >50        | <b>4</b>  | ---      | ---      |
| Tin         | ppm | ASTM D5185m | >10        | <b>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 |            | <b>14</b>    | ---      | ---      |
| Barium     | ppm | ASTM D5185m |            | <b>&lt;1</b> | ---      | ---      |
| Molybdenum | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Manganese  | ppm | ASTM D5185m |            | <b>&lt;1</b> | ---      | ---      |
| Magnesium  | ppm | ASTM D5185m |            | <b>&lt;1</b> | ---      | ---      |
| Calcium    | ppm | ASTM D5185m |            | <b>14</b>    | ---      | ---      |
| Phosphorus | ppm | ASTM D5185m |            | <b>373</b>   | ---      | ---      |
| Zinc       | ppm | ASTM D5185m |            | <b>13</b>    | ---      | ---      |
| Sulfur     | ppm | ASTM D5185m |            | <b>5373</b>  | ---      | ---      |

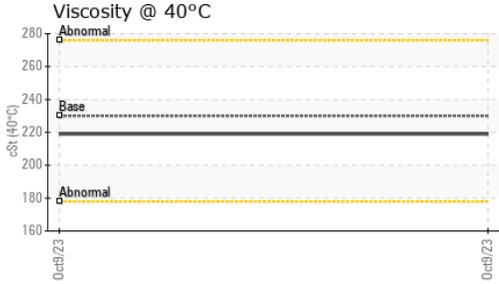
| CONTAMINANTS |     | method      | limit/base | current      | history1 | history2 |
|--------------|-----|-------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >75        | <b>4</b>     | ---      | ---      |
| Sodium       | ppm | ASTM D5185m |            | <b>&lt;1</b> | ---      | ---      |
| Potassium    | ppm | ASTM D5185m | >20        | <b>&lt;1</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 | >0.2       | <b>NEG</b>   | ---      | ---      |
| Free Water       | scalar | *Visual |            | <b>NEG</b>   | ---      | ---      |

| FLUID PROPERTIES |     | method    | limit/base | current    | history1 | history2 |
|------------------|-----|-----------|------------|------------|----------|----------|
| Visc @ 40°C      | cSt | ASTM D445 | 230        | <b>219</b> | ---      | ---      |

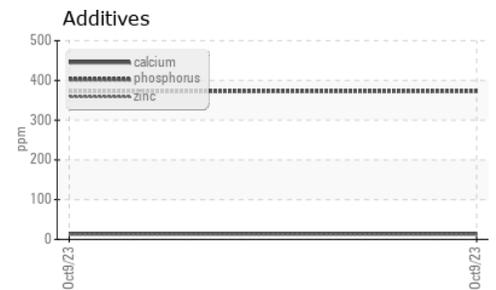
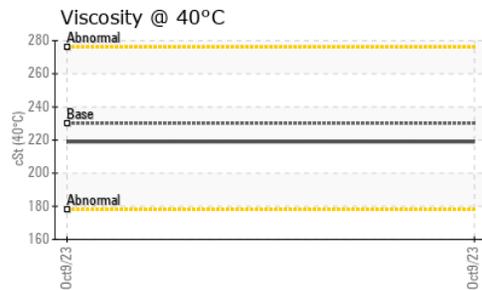
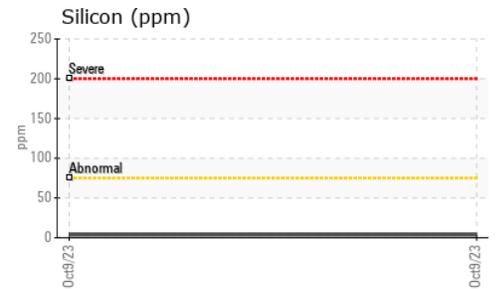
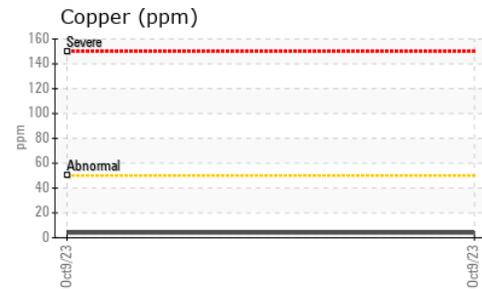
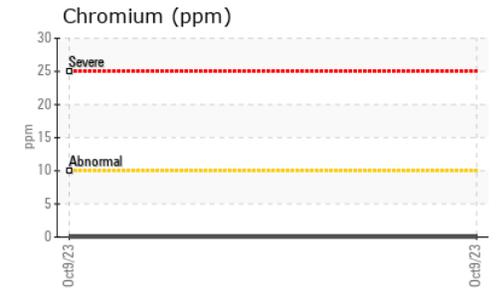
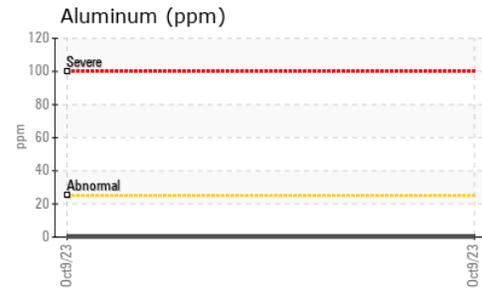
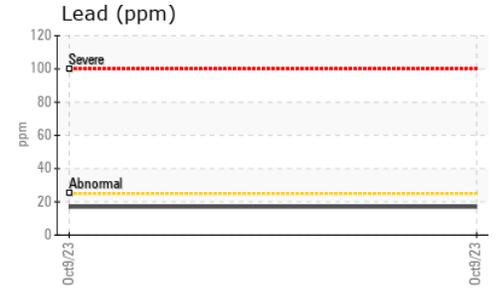
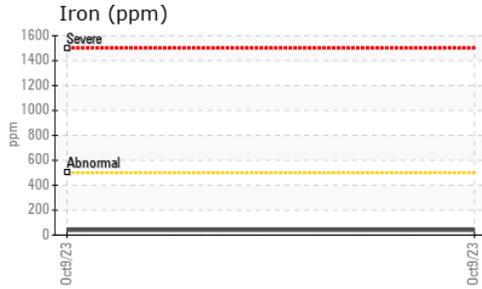


# OIL ANALYSIS REPORT



| SAMPLE IMAGES | method | limit/base | current  | history1 | history2 |
|---------------|--------|------------|----------|----------|----------|
| Color         |        |            | no image | no image | no image |
| Bottom        |        |            | no image | no image | no image |

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0577410      **Received** : 01 Nov 2023  
**Lab Number** : 05996069      **Diagnosed** : 03 Nov 2023  
**Unique Number** : 10724429      **Diagnostician** : Don Baldrige  
**Test Package** : MOBCE

**MAY HEAVY EQUIPMENT / National Equipment Dealers**  
 555 WISE RD  
 CLAYTON, NC  
 US 27528  
 Contact: DAN WILLIS  
 dwillis@nedealers.com  
 T: (919)773-1424  
 F: (919)355-0161

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)