



# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id

**66NSH04**

Component

**Hoisting Gearbox**

Fluid

**SAE 80 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

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

| SAMPLE INFORMATION |             | method      | limit/base | current            | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|----------|----------|
| Sample Number      | Client Info |             |            | <b>DC0030991</b>   | ---      | ---      |
| Sample Date        | Client Info |             |            | <b>08 Apr 2024</b> | ---      | ---      |
| Machine Age        | hrs         | Client Info |            | <b>0</b>           | ---      | ---      |
| Oil Age            | hrs         | Client Info |            | <b>0</b>           | ---      | ---      |
| Oil Changed        | Client Info |             |            | <b>N/A</b>         | ---      | ---      |
| Sample Status      |             |             |            | <b>NORMAL</b>      | ---      | ---      |

| CONTAMINATION |           | method | limit/base | current    | history1 | history2 |
|---------------|-----------|--------|------------|------------|----------|----------|
| Water         | WC Method |        | >0.2       | <b>NEG</b> | ---      | ---      |

| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185m | >200       | <b>4</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 |            | <b>&lt;1</b> | ---      | ---      |
| Lead        | ppm | ASTM D5185m |            | <b>1</b>     | ---      | ---      |
| Copper      | ppm | ASTM D5185m |            | <b>40</b>    | ---      | ---      |
| Tin         | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Vanadium    | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Cadmium     | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |

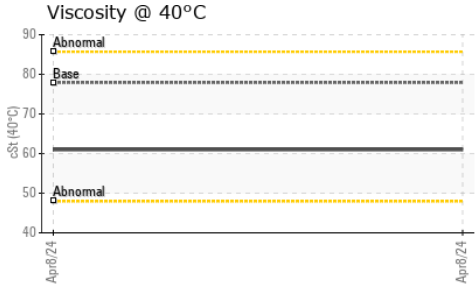
| ADDITIVES  |     | method      | limit/base | current      | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron      | ppm | ASTM D5185m |            | <b>110</b>   | ---      | ---      |
| Barium     | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Molybdenum | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Manganese  | ppm | ASTM D5185m |            | <b>&lt;1</b> | ---      | ---      |
| Magnesium  | ppm | ASTM D5185m |            | <b>0</b>     | ---      | ---      |
| Calcium    | ppm | ASTM D5185m |            | <b>3673</b>  | ---      | ---      |
| Phosphorus | ppm | ASTM D5185m |            | <b>1239</b>  | ---      | ---      |
| Zinc       | ppm | ASTM D5185m |            | <b>1621</b>  | ---      | ---      |
| Sulfur     | ppm | ASTM D5185m |            | <b>9996</b>  | ---      | ---      |

| CONTAMINANTS |     | method      | limit/base | current   | history1 | history2 |
|--------------|-----|-------------|------------|-----------|----------|----------|
| Silicon      | ppm | ASTM D5185m |            | <b>10</b> | ---      | ---      |
| Sodium       | ppm | ASTM D5185m |            | <b>2</b>  | ---      | ---      |
| Potassium    | ppm | ASTM D5185m | >20        | <b>2</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>   | ---      | ---      |



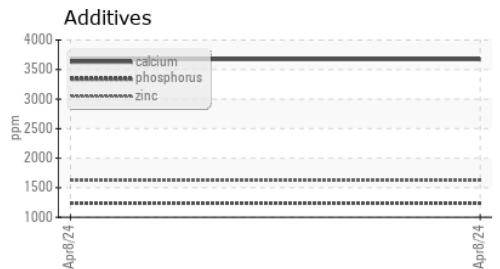
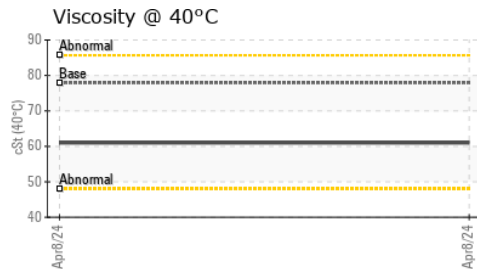
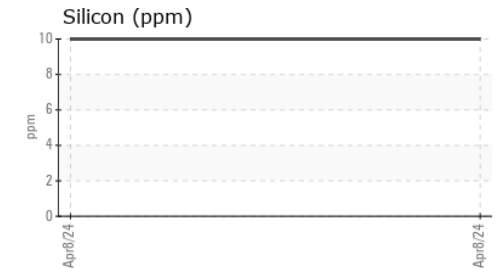
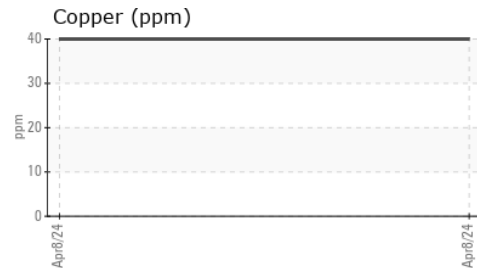
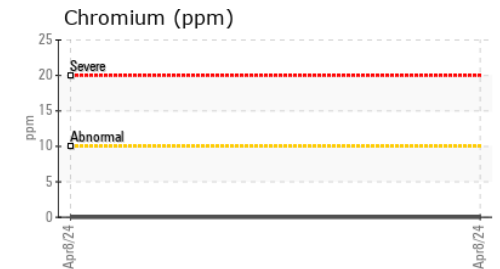
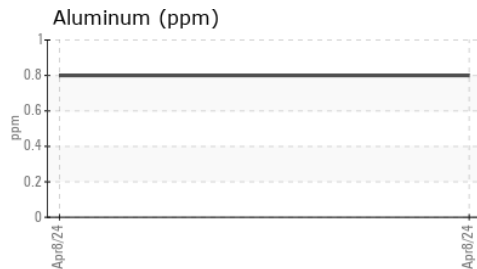
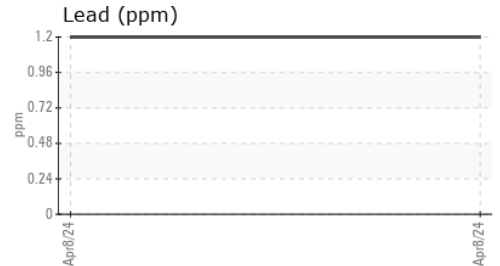
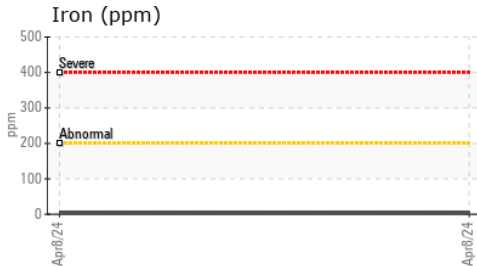
# OIL ANALYSIS REPORT



| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |     |
|------------------|--------|------------|---------|----------|----------|-----|
| Visc @ 40°C      | cSt    | ASTM D445  | 77.9    | 61.0     | ---      | --- |

| 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.** : DC0030991  
**Lab Number** : 06176311  
**Unique Number** : 11022364  
**Test Package** : MOB 1

**Received** : 10 May 2024  
**Tested** : 13 May 2024  
**Diagnosed** : 14 May 2024 - Sean Felton

**CRANWORKS INC - MID-ATLANTIC**  
 11089 LEADBETTER ROAD  
 ASHLAND, VA  
 US 23005  
 Contact: JASON WILDE  
 jcwilde@vacranetworks.com

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: