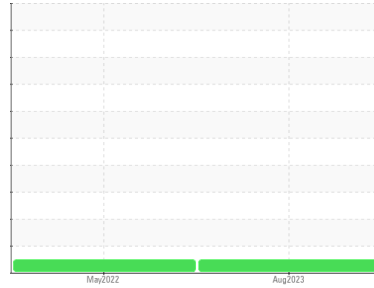




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**OKLAHOMA/102**  
 Machine Id  
**22.69L [OKLAHOMA^102]**

Component  
**Boom Hoist**  
 Fluid  
**MOBIL MOBILUBE HD PLUS 75W90 (--- 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 condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

|               | method      | limit/base  | current            | history1    | history2 |
|---------------|-------------|-------------|--------------------|-------------|----------|
| Sample Number | Client Info |             | <b>WC0833986</b>   | WC0662462   | ---      |
| Sample Date   | Client Info |             | <b>07 Aug 2023</b> | 17 May 2022 | ---      |
| Machine Age   | hrs         | Client Info | <b>1744</b>        | 1070        | ---      |
| Oil Age       | hrs         | Client Info | <b>674</b>         | 1070        | ---      |
| Oil Changed   | Client Info |             | <b>N/A</b>         | Changed     | ---      |
| Sample Status |             |             | <b>NORMAL</b>      | NORMAL      | ---      |

## WEAR METALS

|          | method | limit/base  | current | history1     | history2 |     |
|----------|--------|-------------|---------|--------------|----------|-----|
| Iron     | ppm    | ASTM D5185m | >300    | <b>30</b>    | 123      | --- |
| Chromium | ppm    | ASTM D5185m | >5      | <b>0</b>     | <1       | --- |
| Nickel   | ppm    | ASTM D5185m | >4      | <b>0</b>     | 0        | --- |
| Titanium | ppm    | ASTM D5185m |         | <b>&lt;1</b> | <1       | --- |
| Silver   | ppm    | ASTM D5185m |         | <b>0</b>     | <1       | --- |
| Aluminum | ppm    | ASTM D5185m | >10     | <b>2</b>     | 3        | --- |
| Lead     | ppm    | ASTM D5185m | >120    | <b>0</b>     | 0        | --- |
| Copper   | ppm    | ASTM D5185m | >200    | <b>1</b>     | 2        | --- |
| Tin      | ppm    | ASTM D5185m | >15     | <b>&lt;1</b> | <1       | --- |
| Vanadium | ppm    | ASTM D5185m |         | <b>0</b>     | 0        | --- |
| Cadmium  | ppm    | ASTM D5185m |         | <b>0</b>     | 0        | --- |

## ADDITIVES

|            | method | limit/base  | current | history1     | history2 |     |
|------------|--------|-------------|---------|--------------|----------|-----|
| Boron      | ppm    | ASTM D5185m |         | <b>125</b>   | 2        | --- |
| Barium     | ppm    | ASTM D5185m |         | <b>3</b>     | 6        | --- |
| Molybdenum | ppm    | ASTM D5185m |         | <b>1</b>     | 10       | --- |
| Manganese  | ppm    | ASTM D5185m |         | <b>&lt;1</b> | 1        | --- |
| Magnesium  | ppm    | ASTM D5185m |         | <b>&lt;1</b> | 8        | --- |
| Calcium    | ppm    | ASTM D5185m |         | <b>53</b>    | 9        | --- |
| Phosphorus | ppm    | ASTM D5185m |         | <b>882</b>   | 277      | --- |
| Zinc       | ppm    | ASTM D5185m |         | <b>36</b>    | 37       | --- |
| Sulfur     | ppm    | ASTM D5185m |         | <b>18245</b> | 19419    | --- |

## CONTAMINANTS

|           | method | limit/base  | current | history1     | history2 |     |
|-----------|--------|-------------|---------|--------------|----------|-----|
| Silicon   | ppm    | ASTM D5185m | >75     | <b>19</b>    | 13       | --- |
| Sodium    | ppm    | ASTM D5185m |         | <b>0</b>     | 2        | --- |
| Potassium | ppm    | ASTM D5185m | >20     | <b>&lt;1</b> | 0        | --- |

## VISUAL

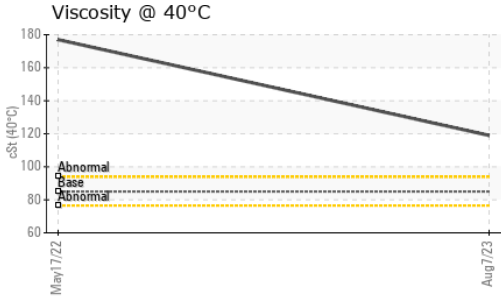
|                  | method | limit/base | current | history1     | history2 |     |
|------------------|--------|------------|---------|--------------|----------|-----|
| White Metal      | scalar | *Visual    | NONE    | <b>NONE</b>  | MODER    | --- |
| Yellow Metal     | scalar | *Visual    | NONE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

## FLUID PROPERTIES

|             | method | limit/base | current | history1   | history2 |     |
|-------------|--------|------------|---------|------------|----------|-----|
| Visc @ 40°C | cSt    | ASTM D445  | 85      | <b>119</b> | 177      | --- |

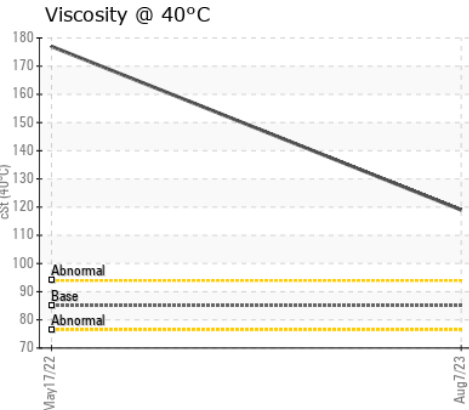
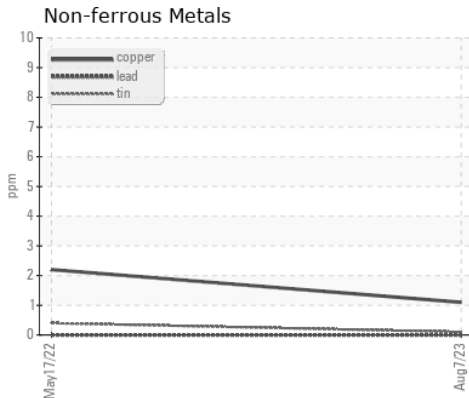
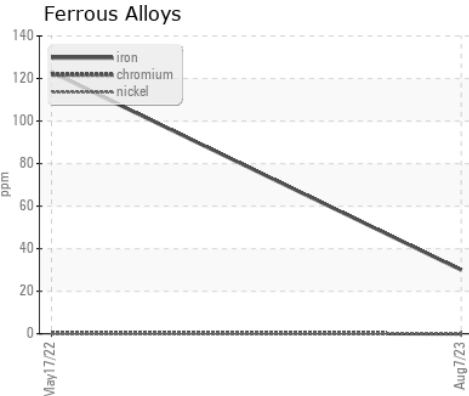


# OIL ANALYSIS REPORT



| 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.** : WC0833986      **Received** : 14 Aug 2023  
**Lab Number** : 05923757      **Diagnosed** : 15 Aug 2023  
**Unique Number** : 10603704      **Diagnostician** : Don Baldrige  
**Test Package** : CONST

**SHERWOOD CONSTRUCTION CO INC**  
 3219 WEST MAY ST  
 WICHITA, KS  
 US 67213  
 Contact: DALE CASINO  
 dale.casino@sherwood.net

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: