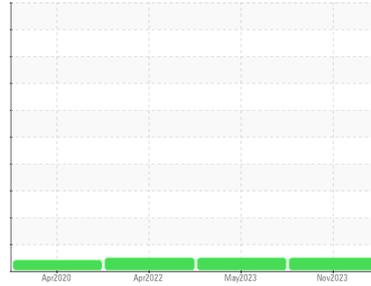




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**015-0068**

Component  
**1 Swing Drive**

Fluid  
**SCHAEFFER 267 80W90 (--- 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>WC0868424</b>   | WC0815162   | WC0548332   |
| Sample Date   | Client Info |             | <b>01 Nov 2023</b> | 19 May 2023 | 04 Apr 2022 |
| Machine Age   | mths        | Client Info | <b>0</b>           | 0           | 0           |
| Oil Age       | mths        | Client Info | <b>0</b>           | 0           | 0           |
| Oil Changed   | Client Info |             | <b>Not Changed</b> | Not Changed | Not Changed |
| Sample Status |             |             | <b>NORMAL</b>      | NORMAL      | NORMAL      |

## WEAR METALS

|          | method | limit/base       | current      | history1 | history2 |
|----------|--------|------------------|--------------|----------|----------|
| Iron     | ppm    | ASTM D5185m >400 | <b>40</b>    | 49       | 111      |
| Chromium | ppm    | ASTM D5185m >10  | <b>&lt;1</b> | <1       | 1        |
| Nickel   | ppm    | ASTM D5185m >10  | <b>0</b>     | <1       | 0        |
| Titanium | ppm    | ASTM D5185m      | <b>0</b>     | <1       | <1       |
| Silver   | ppm    | ASTM D5185m      | <b>0</b>     | 0        | <1       |
| Aluminum | ppm    | ASTM D5185m >25  | <b>2</b>     | <1       | 1        |
| Lead     | ppm    | ASTM D5185m >50  | <b>0</b>     | 2        | 0        |
| Copper   | ppm    | ASTM D5185m >200 | <b>&lt;1</b> | 0        | <1       |
| Tin      | ppm    | ASTM D5185m >10  | <b>0</b>     | 0        | <1       |
| Antimony | ppm    | ASTM D5185m >5   | <b>---</b>   | ---      | ---      |
| Vanadium | ppm    | ASTM D5185m      | <b>0</b>     | <1       | 0        |
| Cadmium  | ppm    | ASTM D5185m      | <b>0</b>     | 0        | 0        |

## ADDITIVES

|            | method | limit/base  | current      | history1 | history2 |
|------------|--------|-------------|--------------|----------|----------|
| Boron      | ppm    | ASTM D5185m | <b>35</b>    | 51       | 149      |
| Barium     | ppm    | ASTM D5185m | <b>0</b>     | 0        | 0        |
| Molybdenum | ppm    | ASTM D5185m | <b>376</b>   | 400      | 397      |
| Manganese  | ppm    | ASTM D5185m | <b>&lt;1</b> | <1       | <1       |
| Magnesium  | ppm    | ASTM D5185m | <b>&lt;1</b> | 2        | 3        |
| Calcium    | ppm    | ASTM D5185m | <b>12</b>    | 20       | 31       |
| Phosphorus | ppm    | ASTM D5185m | <b>732</b>   | 871      | 1222     |
| Zinc       | ppm    | ASTM D5185m | <b>27</b>    | 19       | 29       |
| Sulfur     | ppm    | ASTM D5185m | <b>16528</b> | 22350    | 18857    |

## CONTAMINANTS

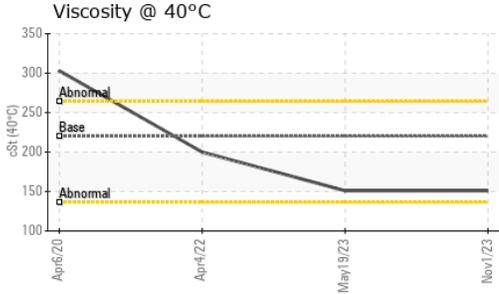
|           | method | limit/base      | current      | history1 | history2 |
|-----------|--------|-----------------|--------------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >50 | <b>8</b>     | 11       | 8        |
| Sodium    | ppm    | ASTM D5185m     | <b>1</b>     | <1       | 1        |
| Potassium | ppm    | ASTM D5185m >20 | <b>&lt;1</b> | 2        | 0        |

## VISUAL

|                  | method | limit/base    | current      | history1 | history2 |
|------------------|--------|---------------|--------------|----------|----------|
| White Metal      | scalar | *Visual NONE  | <b>NONE</b>  | MODER    | LIGHT    |
| 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 >0.2  | <b>NEG</b>   | NEG      | NEG      |
| Free Water       | scalar | *Visual       | <b>NEG</b>   | NEG      | NEG      |



# OIL ANALYSIS REPORT

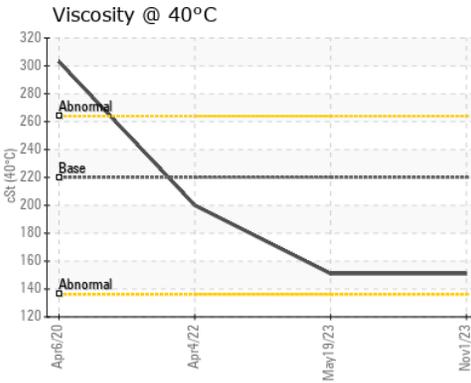
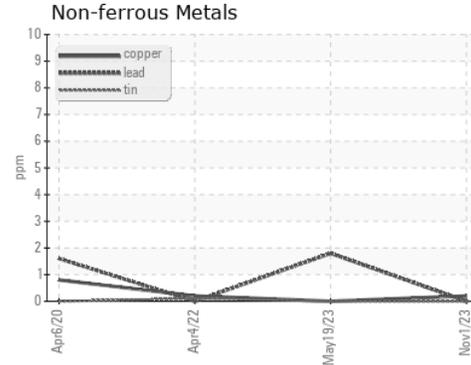
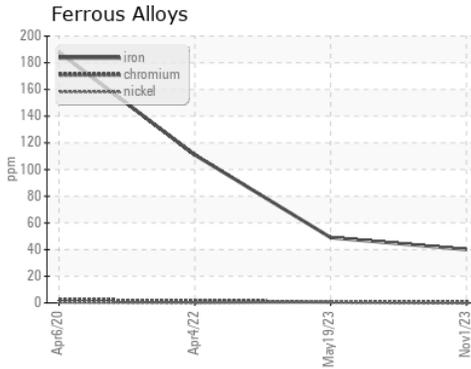


| FLUID PROPERTIES | method | limit/base    | current    | history1 | history2 |
|------------------|--------|---------------|------------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D445 220 | <b>151</b> | 151      | 200      |

| 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.** : WC0868424 **Received** : 06 Nov 2023  
**Lab Number** : 06000145 **Diagnosed** : 15 Nov 2023  
**Unique Number** : 10728505 **Diagnostician** : Doug Bogart  
**Test Package** : CONST

**SHIMMICK CONSTRUCTION**  
 5535 TRAILHEAD DRIVE  
 CHATTANOOGA, TN  
 US 37415  
 Contact: DANIEL LISELLA  
 daniel.lisella@shimmick.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: