



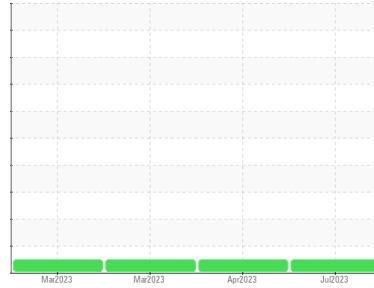
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**OKLAHOMA/102**  
Machine Id  
**38.86 [OKLAHOMA^102]**  
Component  
**Right Final Drive**  
Fluid  
**MOBIL MOBILTRANS HD 50 (3 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>WC0800931</b>   | WC0800908   | WC0792467   |
| Sample Date   | Client Info     | <b>31 Jul 2023</b> | 14 Apr 2023 | 28 Mar 2023 |
| Machine Age   | hrs Client Info | <b>4830</b>        | 4155        | 4155        |
| Oil Age       | hrs Client Info | <b>4252</b>        | 4155        | 91          |
| Oil Changed   | Client Info     | <b>Changed</b>     | N/A         | Changed     |
| Sample Status |                 | <b>NORMAL</b>      | NORMAL      | NORMAL      |

## WEAR METALS

| method                   | limit/base | current      | history1 | history2 |
|--------------------------|------------|--------------|----------|----------|
| Iron ppm ASTM D5185m     | >800       | <b>42</b>    | 14       | 22       |
| Chromium ppm ASTM D5185m | >10        | <b>&lt;1</b> | <1       | <1       |
| Nickel ppm ASTM D5185m   | >5         | <b>0</b>     | 0        | <1       |
| Titanium ppm ASTM D5185m | >15        | <b>&lt;1</b> | <1       | <1       |
| Silver ppm ASTM D5185m   | >2         | <b>0</b>     | 0        | 0        |
| Aluminum ppm ASTM D5185m | >75        | <b>3</b>     | 0        | 2        |
| Lead ppm ASTM D5185m     | >10        | <b>0</b>     | 0        | 0        |
| Copper ppm ASTM D5185m   | >75        | <b>0</b>     | 0        | <1       |
| Tin ppm ASTM D5185m      | >8         | <b>0</b>     | 0        | 0        |
| Vanadium ppm ASTM D5185m |            | <b>0</b>     | 0        | 0        |
| Cadmium ppm ASTM D5185m  |            | <b>0</b>     | 0        | 0        |

## ADDITIVES

| method                     | limit/base | current      | history1 | history2 |
|----------------------------|------------|--------------|----------|----------|
| Boron ppm ASTM D5185m      |            | <b>8</b>     | 10       | 8        |
| Barium ppm ASTM D5185m     |            | <b>0</b>     | 0        | 0        |
| Molybdenum ppm ASTM D5185m |            | <b>2</b>     | 4        | 4        |
| Manganese ppm ASTM D5185m  |            | <b>&lt;1</b> | <1       | <1       |
| Magnesium ppm ASTM D5185m  |            | <b>39</b>    | 36       | 40       |
| Calcium ppm ASTM D5185m    |            | <b>3081</b>  | 2961     | 3116     |
| Phosphorus ppm ASTM D5185m |            | <b>1010</b>  | 1017     | 1066     |
| Zinc ppm ASTM D5185m       |            | <b>1242</b>  | 1257     | 1307     |
| Sulfur ppm ASTM D5185m     |            | <b>8975</b>  | 8666     | 8884     |

## CONTAMINANTS

| method                    | limit/base | current  | history1 | history2 |
|---------------------------|------------|----------|----------|----------|
| Silicon ppm ASTM D5185m   | >400       | <b>9</b> | 8        | 10       |
| Sodium ppm ASTM D5185m    |            | <b>2</b> | <1       | 2        |
| Potassium ppm ASTM D5185m | >20        | <b>0</b> | 1        | 1        |

## VISUAL

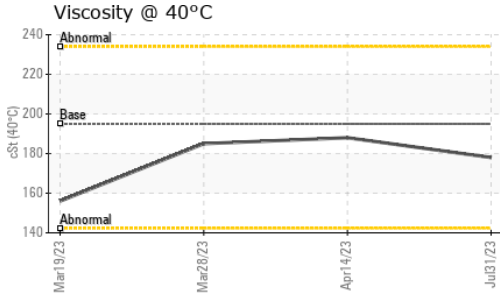
| method                          | limit/base | current      | history1 | history2 |
|---------------------------------|------------|--------------|----------|----------|
| White Metal scalar *Visual      | NONE       | <b>NONE</b>  | NONE     | NONE     |
| Yellow Metal scalar *Visual     | NONE  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

## FLUID PROPERTIES

| method                    | limit/base | current    | history1 | history2 |
|---------------------------|------------|------------|----------|----------|
| Visc @ 40°C cSt ASTM D445 | 195        | <b>178</b> | 188      | 185      |

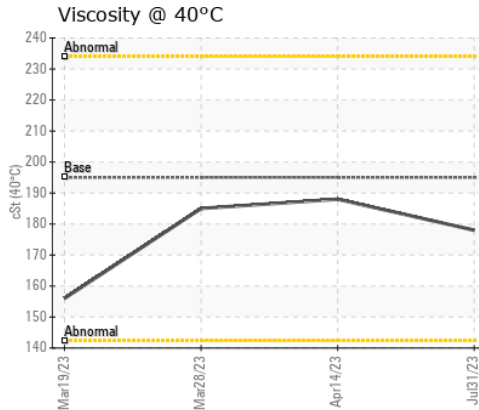
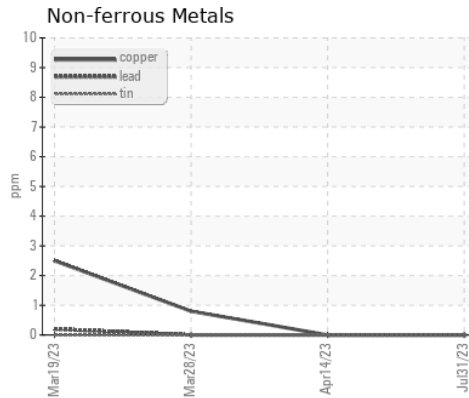
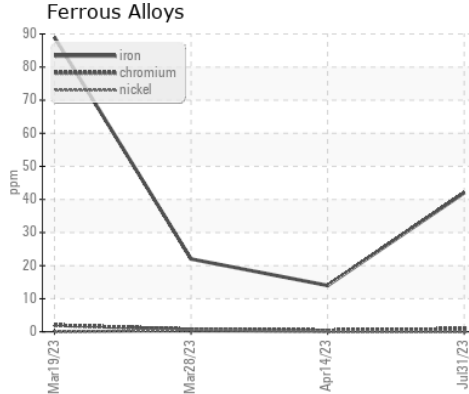


# OIL ANALYSIS REPORT



| 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.** : WC0800931  
**Lab Number** : 05926888  
**Unique Number** : 10606835  
**Test Package** : CONST

**Received** : 16 Aug 2023  
**Diagnosed** : 18 Aug 2023  
**Diagnostician** : Don Baldrige

**SHERWOOD CONSTRUCTION CO INC**  
 3219 WEST MAY ST  
 WICHITA, KS  
 US 67213  
 Contact: SHAWN SOUTH  
 shawn.south@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: x:  
F: x: