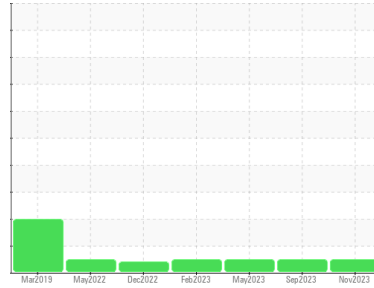


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**KEMP QUARRIES / RIVER VALLEY OZARK**  
Machine Id  
**OHT082**  
Component  
**Rear Right Final Drive**  
Fluid  
**MOBIL MOBILTRANS HD 50 (--- 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>PCA0069703</b>  | PCA0069818  | PCA0084643  |
| Sample Date        | Client Info |             |            | <b>06 Nov 2023</b> | 05 Sep 2023 | 23 May 2023 |
| Machine Age        | hrs         | Client Info |            | <b>3045</b>        | 2841        | 2462        |
| Oil Age            | hrs         | Client Info |            | <b>3045</b>        | 1237        | 1237        |
| Oil Changed        | Client Info |             |            | <b>N/A</b>         | N/A         | N/A         |
| Sample Status      |             |             |            | <b>NORMAL</b>      | NORMAL      | NORMAL      |

| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185m | >800       | <b>34</b>    | 32       | 26       |
| Chromium    | ppm | ASTM D5185m | >10        | <b>&lt;1</b> | 0        | <1       |
| Nickel      | ppm | ASTM D5185m | >5         | <b>&lt;1</b> | 0        | 0        |
| Titanium    | ppm | ASTM D5185m | >15        | <b>&lt;1</b> | <1       | <1       |
| Silver      | ppm | ASTM D5185m | >2         | <b>&lt;1</b> | 0        | 0        |
| Aluminum    | ppm | ASTM D5185m | >75        | <b>2</b>     | 3        | 1        |
| Lead        | ppm | ASTM D5185m | >10        | <b>&lt;1</b> | 1        | <1       |
| Copper      | ppm | ASTM D5185m | >75        | <b>6</b>     | 5        | 3        |
| Tin         | ppm | ASTM D5185m | >8         | <b>&lt;1</b> | <1       | <1       |
| Vanadium    | ppm | ASTM D5185m |            | <b>&lt;1</b> | <1       | 0        |
| Cadmium     | ppm | ASTM D5185m |            | <b>&lt;1</b> | 0        | 0        |

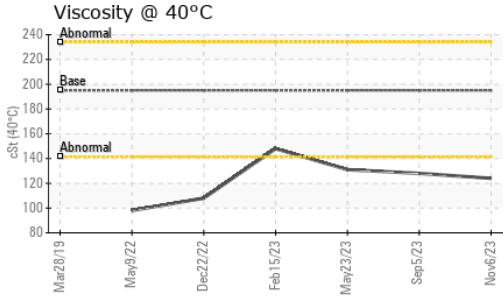
| ADDITIVES  |     | method      | limit/base | current      | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron      | ppm | ASTM D5185m |            | <b>7</b>     | 6        | 6        |
| Barium     | ppm | ASTM D5185m |            | <b>0</b>     | 0        | 0        |
| Molybdenum | ppm | ASTM D5185m |            | <b>3</b>     | 3        | 3        |
| Manganese  | ppm | ASTM D5185m |            | <b>&lt;1</b> | <1       | <1       |
| Magnesium  | ppm | ASTM D5185m |            | <b>36</b>    | 38       | 37       |
| Calcium    | ppm | ASTM D5185m |            | <b>2147</b>  | 2233     | 2301     |
| Phosphorus | ppm | ASTM D5185m |            | <b>720</b>   | 719      | 760      |
| Zinc       | ppm | ASTM D5185m |            | <b>877</b>   | 869      | 929      |
| Sulfur     | ppm | ASTM D5185m |            | <b>5662</b>  | 6520     | 7178     |

| CONTAMINANTS |     | method      | limit/base | current   | history1 | history2 |
|--------------|-----|-------------|------------|-----------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >400       | <b>13</b> | 14       | 15       |
| Sodium       | ppm | ASTM D5185m |            | <b>0</b>  | 2        | 1        |
| Potassium    | ppm | ASTM D5185m | >20        | <b>2</b>  | 0        | 0        |

| 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      |

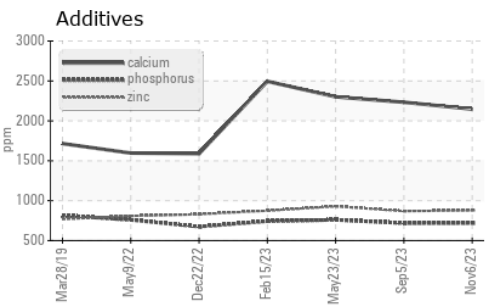
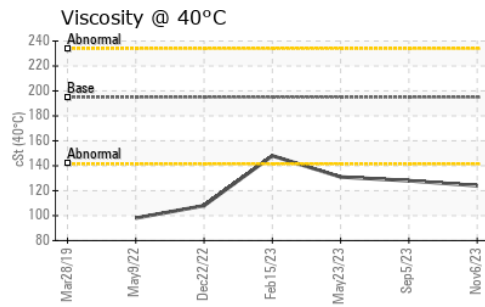
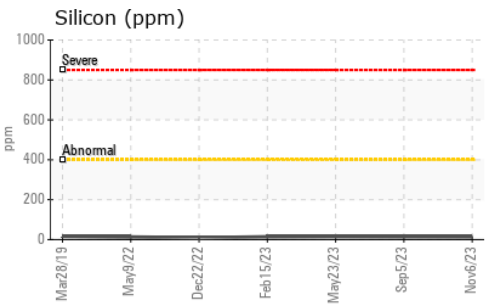
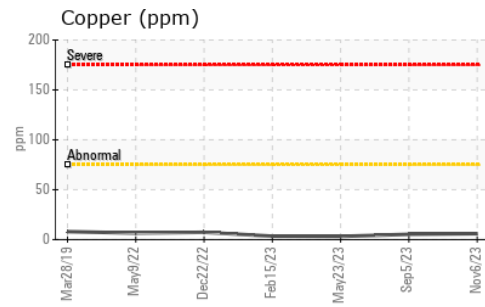
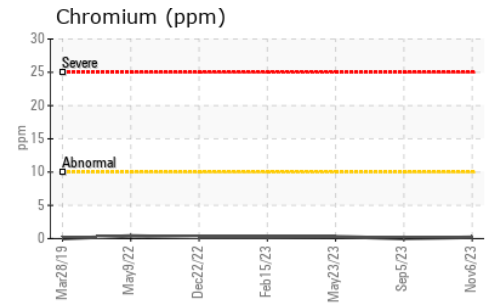
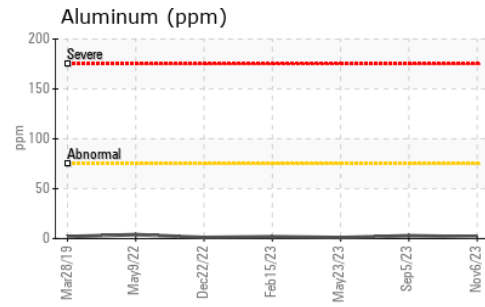
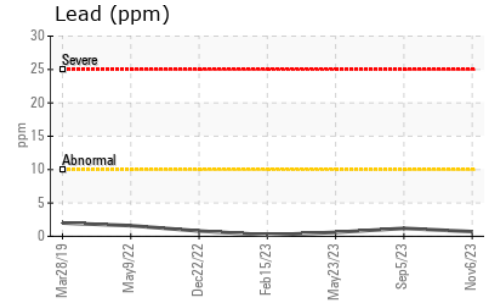
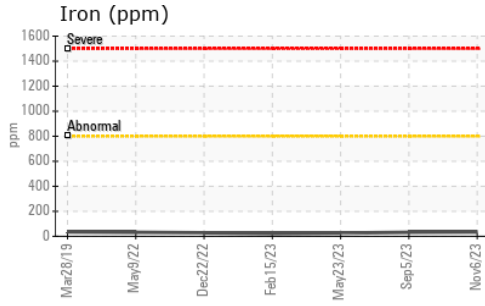
| FLUID PROPERTIES |     | method    | limit/base | current    | history1 | history2 |
|------------------|-----|-----------|------------|------------|----------|----------|
| Visc @ 40°C      | cSt | ASTM D445 | 195        | <b>124</b> | 128      | 131      |

# 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.** : PCA0069703  
**Lab Number** : 06007913  
**Unique Number** : 10741675  
**Test Package** : MOB 1

**Kemp Quarries - River Valley - Ozark**  
 9446 N Hwy 309  
 Ozark, AR  
 US 72949

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)

Contact: ozark@rivervalleyquarries.com

T:  
F: