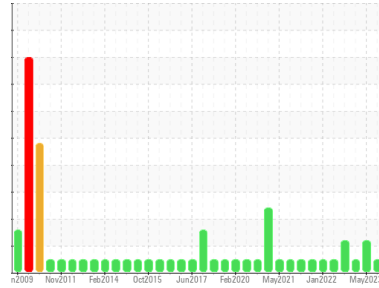


# OIL ANALYSIS REPORT



Area  
**KEMP QUARRIES / RIVER VALLEY OZARK**  
Machine Id  
**WL033**  
Component  
**Hydraulic System**  
Fluid  
**MOBIL DELVAC 1300 SUPER15W40 (--- GAL)**

Sample Rating Trend



**NORMAL**



## 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 fluid.

### Fluid Condition

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

## SAMPLE INFORMATION

|               | method      | limit/base  | current            | history1    | history2    |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info |             | <b>PCA0069688</b>  | PCA0084651  | PCA0084665  |
| Sample Date   | Client Info |             | <b>31 Jul 2023</b> | 23 May 2023 | 28 Feb 2023 |
| Machine Age   | hrs         | Client Info | <b>42005</b>       | 41725       | 41433       |
| Oil Age       | hrs         | Client Info | <b>39040</b>       | 39040       | 41433       |
| Oil Changed   | Client Info |             | <b>N/A</b>         | N/A         | N/A         |
| Sample Status |             |             | <b>NORMAL</b>      | ABNORMAL    | NORMAL      |

## WEAR METALS

|          | method | limit/base      | current      | history1 | history2 |
|----------|--------|-----------------|--------------|----------|----------|
| Iron     | ppm    | ASTM D5185m >20 | <b>17</b>    | 9        | 8        |
| Chromium | ppm    | ASTM D5185m >10 | <b>1</b>     | <1       | <1       |
| Nickel   | ppm    | ASTM D5185m >10 | <b>0</b>     | 0        | 0        |
| Titanium | ppm    | ASTM D5185m     | <b>&lt;1</b> | <1       | <1       |
| Silver   | ppm    | ASTM D5185m     | <b>0</b>     | 0        | 0        |
| Aluminum | ppm    | ASTM D5185m >10 | <b>7</b>     | 0        | 5        |
| Lead     | ppm    | ASTM D5185m >10 | <b>1</b>     | 0        | 0        |
| Copper   | ppm    | ASTM D5185m >75 | <b>10</b>    | <1       | <1       |
| Tin      | ppm    | ASTM D5185m >10 | <b>&lt;1</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 0 | <b>4</b>     | 8        | 2        |
| Barium     | ppm    | ASTM D5185m 0 | <b>0</b>     | 0        | 0        |
| Molybdenum | ppm    | ASTM D5185m 0 | <b>7</b>     | 7        | 6        |
| Manganese  | ppm    | ASTM D5185m   | <b>&lt;1</b> | <1       | <1       |
| Magnesium  | ppm    | ASTM D5185m 0 | <b>49</b>    | 51       | 60       |
| Calcium    | ppm    | ASTM D5185m   | <b>142</b>   | 235      | 144      |
| Phosphorus | ppm    | ASTM D5185m   | <b>369</b>   | 413      | 372      |
| Zinc       | ppm    | ASTM D5185m   | <b>470</b>   | 503      | 459      |
| Sulfur     | ppm    | ASTM D5185m   | <b>999</b>   | 1036     | 1151     |

## CONTAMINANTS

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

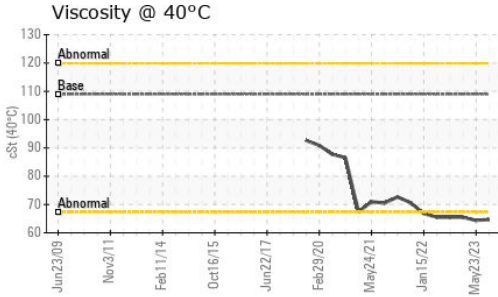
## VISUAL

|                  | 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 >0.1  | <b>NEG</b>   | NEG      | NEG      |
| Free Water       | scalar | *Visual       | <b>NEG</b>   | NEG      | NEG      |

## FLUID PROPERTIES

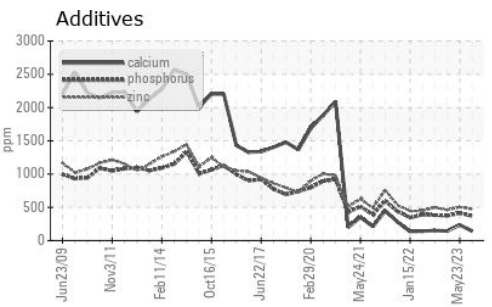
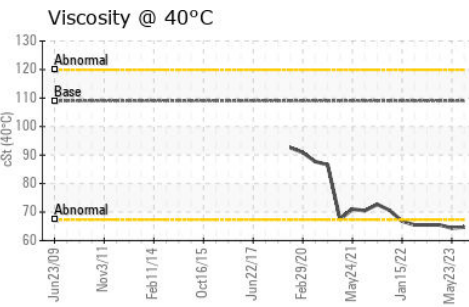
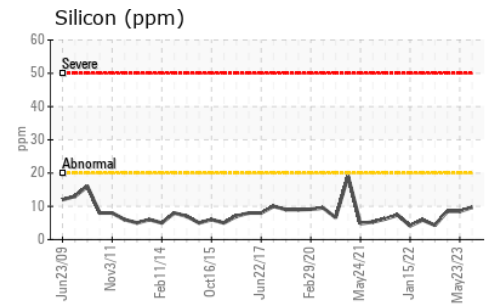
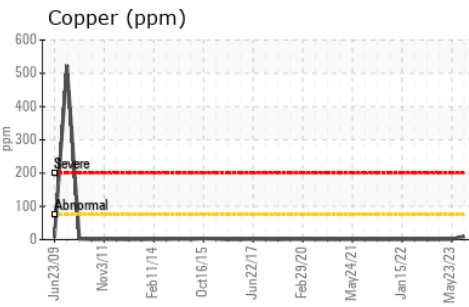
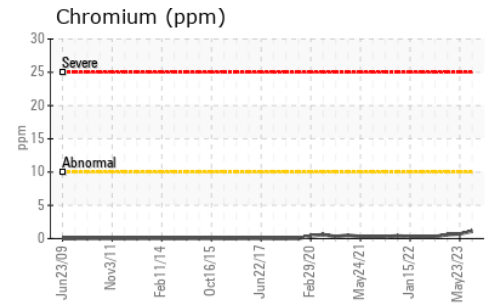
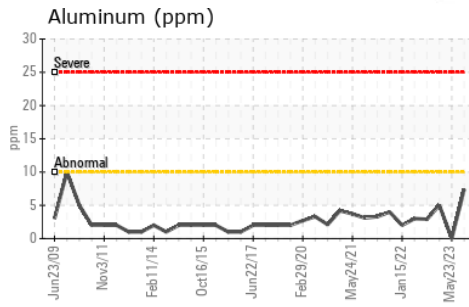
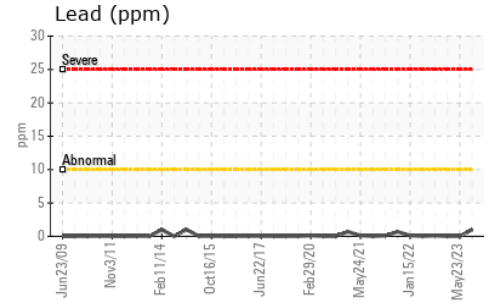
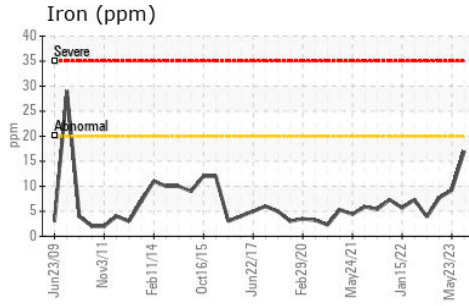
|             | method | limit/base    | current     | history1 | history2 |
|-------------|--------|---------------|-------------|----------|----------|
| Visc @ 40°C | cSt    | ASTM D445 109 | <b>64.7</b> | 64.4     | 65.5     |

# OIL ANALYSIS REPORT



| SAMPLE IMAGES |  | method | limit/base | current | history1 | history2 |
|---------------|--|--------|------------|---------|----------|----------|
| Color         |  |        |            |         |          |          |
| Bottom        |  |        |            |         |          |          |

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0069688  
**Lab Number** : 05924605  
**Unique Number** : 10604552  
**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: