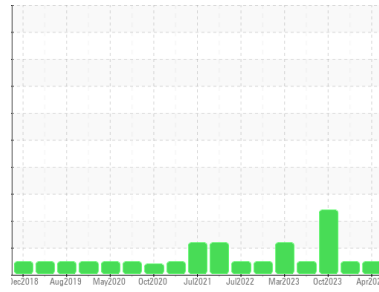


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Area  
**KEMP QUARRIES / BCS - GRAVETTE [69573]**

Machine Id  
**WL124**

Component  
**Transmission (Manual)**

Fluid  
**PETRO CANADA PRODURO TO-4 SAE 30 (--- GAL)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Pm4 )

#### 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>PCA0108549</b>  | PCA0108537  | PCA0086995  |
| Sample Date   | Client Info |             | <b>18 Apr 2024</b> | 08 Feb 2024 | 12 Oct 2023 |
| Machine Age   | hrs         | Client Info | <b>38441</b>       | 37365       | 37365       |
| Oil Age       | hrs         | Client Info | <b>38441</b>       | 37365       | 37365       |
| Oil Changed   | Client Info |             | <b>Changed</b>     | N/A         | Changed     |
| Sample Status |             |             | <b>NORMAL</b>      | NORMAL      | ATTENTION   |

### CONTAMINATION

|       | method    | limit/base | current    | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.1       | <b>NEG</b> | NEG      | NEG      |

### WEAR METALS

|          | method | limit/base       | current      | history1 | history2 |
|----------|--------|------------------|--------------|----------|----------|
| Iron     | ppm    | ASTM D5185m >200 | <b>1</b>     | 0        | 14       |
| Chromium | ppm    | ASTM D5185m >5   | <b>&lt;1</b> | <1       | <1       |
| Nickel   | ppm    | ASTM D5185m >5   | <b>0</b>     | 0        | 0        |
| Titanium | ppm    | ASTM D5185m      | <b>0</b>     | 0        | <1       |
| Silver   | ppm    | ASTM D5185m >7   | <b>0</b>     | 0        | 0        |
| Aluminum | ppm    | ASTM D5185m >25  | <b>0</b>     | <1       | 2        |
| Lead     | ppm    | ASTM D5185m >45  | <b>0</b>     | <1       | <1       |
| Copper   | ppm    | ASTM D5185m >225 | <b>6</b>     | 2        | 3        |
| 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        | <1       |

### ADDITIVES

|            | method | limit/base       | current      | history1 | history2 |
|------------|--------|------------------|--------------|----------|----------|
| Boron      | ppm    | ASTM D5185m 2    | <b>2</b>     | 0        | 18       |
| Barium     | ppm    | ASTM D5185m 0    | <b>1</b>     | 0        | 10       |
| Molybdenum | ppm    | ASTM D5185m 0    | <b>0</b>     | 0        | 19       |
| Manganese  | ppm    | ASTM D5185m 9    | <b>&lt;1</b> | <1       | 0        |
| Magnesium  | ppm    | ASTM D5185m 1    | <b>20</b>    | 22       | 149      |
| Calcium    | ppm    | ASTM D5185m 3131 | <b>2906</b>  | 2866     | 968      |
| Phosphorus | ppm    | ASTM D5185m 1194 | <b>1003</b>  | 911      | 577      |
| Zinc       | ppm    | ASTM D5185m 1281 | <b>1155</b>  | 1199     | 689      |
| Sulfur     | ppm    | ASTM D5185m 3811 | <b>4541</b>  | 3891     | 2278     |

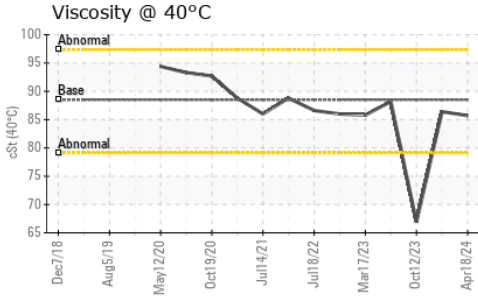
### CONTAMINANTS

|           | method | limit/base       | current      | history1 | history2 |
|-----------|--------|------------------|--------------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >125 | <b>4</b>     | 3        | 3        |
| Sodium    | ppm    | ASTM D5185m      | <b>&lt;1</b> | 0        | 0        |
| Potassium | ppm    | ASTM D5185m >20  | <b>0</b>     | 0        | 2        |

### 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      |

# OIL ANALYSIS REPORT

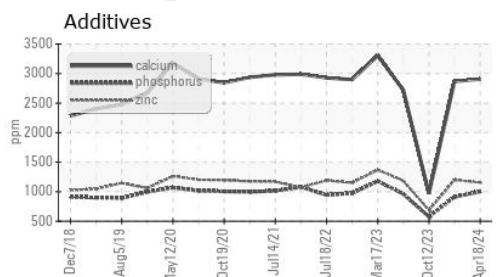
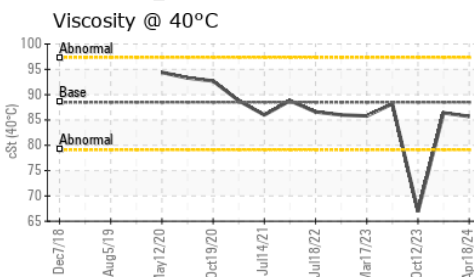
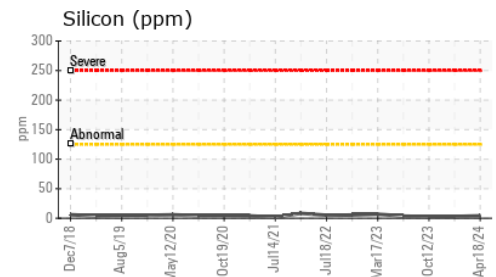
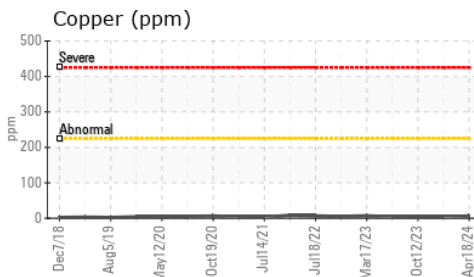
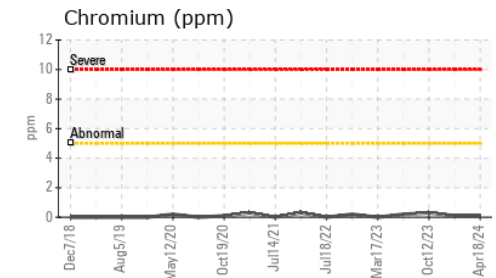
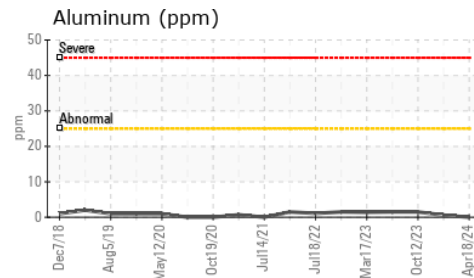
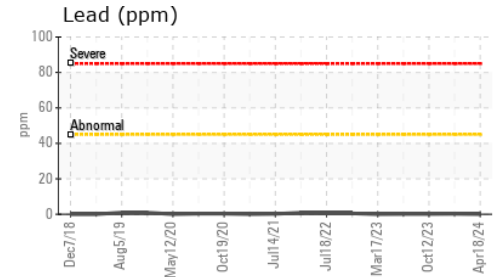
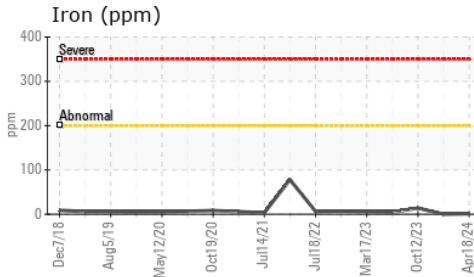


| FLUID PROPERTIES | method | limit/base | current | history1    | history2 |      |
|------------------|--------|------------|---------|-------------|----------|------|
| Visc @ 40°C      | cSt    | ASTM D445  | 88.5    | <b>85.7</b> | 86.4     | 66.9 |

| 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.** : PCA0108549  
**Lab Number** : 06177985  
**Unique Number** : 11029311  
**Test Package** : MOB 1

**Received** : 13 May 2024  
**Tested** : 14 May 2024  
**Diagnosed** : 15 May 2024 - Sean Felton

**Kemp Quarries - Benton County Stone - Gravette**  
 15100 N Hwy 59  
 Sulphur Springs, AR  
 US 72768  
 Contact:  
 gravette@bentoncountystone.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)