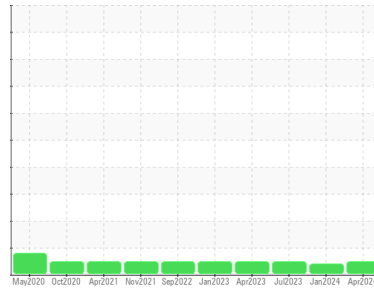


# OIL ANALYSIS REPORT



Area  
**KEMP QUARRIES / BCS - GRAVETTE [69469]**  
 Machine Id  
**WL134**  
 Component  
**Rear Differential**  
 Fluid  
**PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)**

### Sample Rating Trend



NORMAL

✓

## DIAGNOSIS

**Recommendation**  
 Resample at the next service interval to monitor. ( Customer Sample Comment: Pm2 )

**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>PCA0108559</b>  | PCA0069861  | PCA0084527  |
| Sample Date   | Client Info |             | <b>16 Apr 2024</b> | 09 Jan 2024 | 27 Jul 2023 |
| Machine Age   | hrs         | Client Info | <b>27092</b>       | 26559       | 26117       |
| Oil Age       | hrs         | Client Info | <b>26650</b>       | 442         | 26117       |
| Oil Changed   | Client Info |             | <b>N/A</b>         | N/A         | Changed     |
| Sample Status |             |             | <b>NORMAL</b>      | ABNORMAL    | NORMAL      |

## CONTAMINATION

|       | method    | limit/base | current    | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >.2        | <b>NEG</b> | NEG      | NEG      |

## WEAR METALS

|          | method | limit/base       | current      | history1 | history2 |
|----------|--------|------------------|--------------|----------|----------|
| Iron     | ppm    | ASTM D5185m >500 | <b>60</b>    | 25       | 185      |
| Chromium | ppm    | ASTM D5185m >3   | <b>&lt;1</b> | <1       | <1       |
| Nickel   | ppm    | ASTM D5185m >3   | <b>0</b>     | 0        | <1       |
| Titanium | ppm    | ASTM D5185m >2   | <b>0</b>     | <1       | <1       |
| Silver   | ppm    | ASTM D5185m >2   | <b>0</b>     | 0        | 0        |
| Aluminum | ppm    | ASTM D5185m >30  | <b>&lt;1</b> | 2        | 2        |
| Lead     | ppm    | ASTM D5185m >13  | <b>0</b>     | 2        | 0        |
| Copper   | ppm    | ASTM D5185m >103 | <b>0</b>     | <1       | 1        |
| Tin      | ppm    | ASTM D5185m >5   | <b>&lt;1</b> | <1       | 0        |
| Vanadium | ppm    | ASTM D5185m      | <b>0</b>     | <1       | <1       |
| Cadmium  | ppm    | ASTM D5185m      | <b>0</b>     | 0        | 0        |

## ADDITIVES

|            | method | limit/base       | current      | history1 | history2 |
|------------|--------|------------------|--------------|----------|----------|
| Boron      | ppm    | ASTM D5185m 2    | <b>6</b>     | 9        | 60       |
| Barium     | ppm    | ASTM D5185m 0    | <b>1</b>     | 0        | 0        |
| Molybdenum | ppm    | ASTM D5185m 0    | <b>0</b>     | <1       | 3        |
| Manganese  | ppm    | ASTM D5185m 0    | <b>&lt;1</b> | <1       | 2        |
| Magnesium  | ppm    | ASTM D5185m 9    | <b>13</b>    | 15       | 13       |
| Calcium    | ppm    | ASTM D5185m 3114 | <b>2788</b>  | 2946     | 2589     |
| Phosphorus | ppm    | ASTM D5185m 1099 | <b>1107</b>  | 1078     | 1056     |
| Zinc       | ppm    | ASTM D5185m 1245 | <b>1222</b>  | 1236     | 1050     |
| Sulfur     | ppm    | ASTM D5185m 7086 | <b>6221</b>  | 5831     | 11307    |

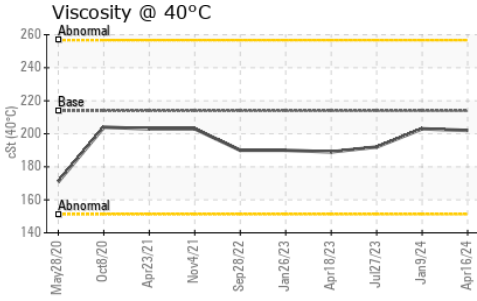
## CONTAMINANTS

|           | method | limit/base       | current   | history1 | history2 |
|-----------|--------|------------------|-----------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >100 | <b>18</b> | 19       | 35       |
| Sodium    | ppm    | ASTM D5185m      | <b>1</b>  | 2        | 2        |
| Potassium | ppm    | ASTM D5185m >20  | <b>0</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>  | ▲ MODER  | 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 >.2   | <b>NEG</b>   | NEG      | NEG      |
| Free Water       | scalar | *Visual       | <b>NEG</b>   | NEG      | NEG      |

# OIL ANALYSIS REPORT

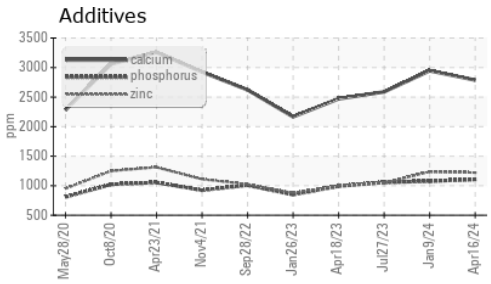
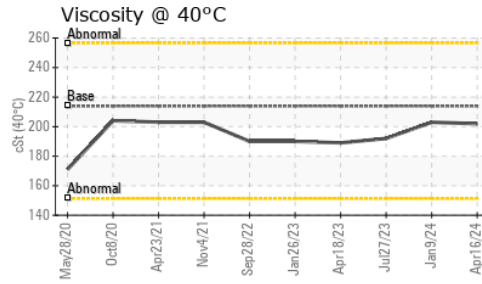
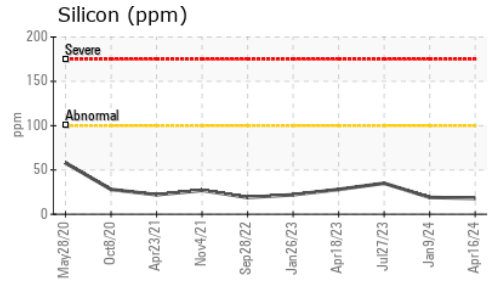
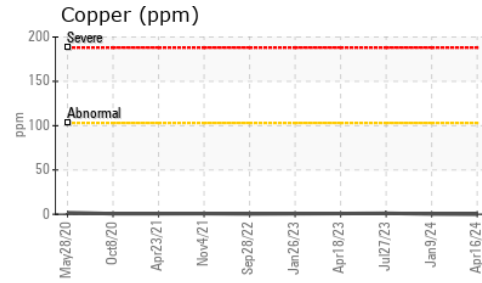
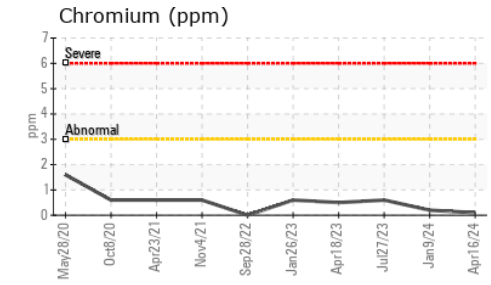
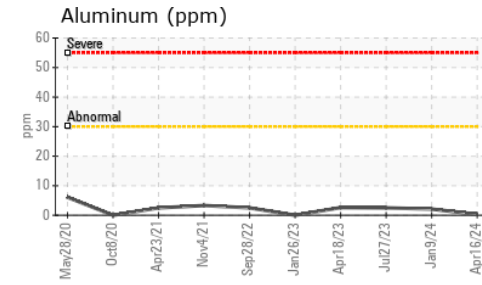
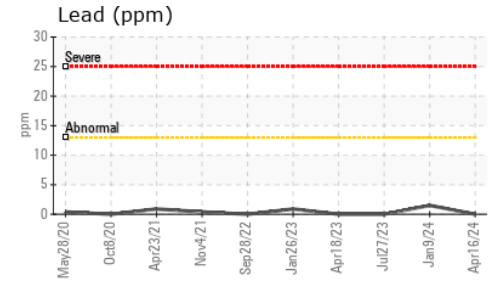
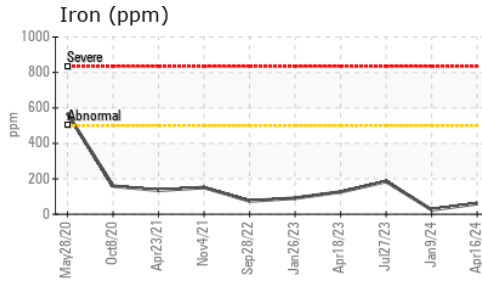


| FLUID PROPERTIES | method | limit/base | current | history1   | history2 |     |
|------------------|--------|------------|---------|------------|----------|-----|
| Visc @ 40°C      | cSt    | ASTM D445  | 213.9   | <b>202</b> | 203      | 192 |

| 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.** : PCA0108559  
**Lab Number** : 06177923  
**Unique Number** : 11029249  
**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)