

Area  
**KEMP QUARRIES / BCS - GRAVETTE [69813]**

Machine Id  
**OHT111**

Component  
**Rear Left Final Drive**

Fluid  
**PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)**

**RECOMMENDATION**

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

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>PCA0108505</b>  | PCA0069804  | PCA0062009  |
| Sample Date    |     | Client Info |           | <b>08 May 2024</b> | 05 Feb 2024 | 19 Jan 2023 |
| Machine Age    | hrs | Client Info |           | <b>24208</b>       | 24208       | 20812       |
| Oil Age        | hrs | Client Info |           | <b>19917</b>       | 19917       | 20812       |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | N/A         | N/A         |
| Filter Changed |     | Client Info |           | <b>None</b>        | N/A         | N/A         |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

**WEAR**

All component wear rates are normal.

|              |        |             |      |              |      |       |
|--------------|--------|-------------|------|--------------|------|-------|
| Iron         | ppm    | ASTM D5185m | >500 | <b>34</b>    | 20   | 12    |
| Chromium     | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | <1   | <1    |
| Nickel       | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | 0    | 0     |
| Titanium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | 0    | 0     |
| Silver       | ppm    | ASTM D5185m |      | <b>&lt;1</b> | 0    | 0     |
| Aluminum     | ppm    | ASTM D5185m | >25  | <b>&lt;1</b> | <1   | <1    |
| Lead         | ppm    | ASTM D5185m | >25  | <b>&lt;1</b> | 0    | 0     |
| Copper       | ppm    | ASTM D5185m | >50  | <b>2</b>     | 0    | 2     |
| Tin          | ppm    | ASTM D5185m | >10  | <b>0</b>     | 0    | 0     |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0     |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | MODER |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE  |

**CONTAMINATION**

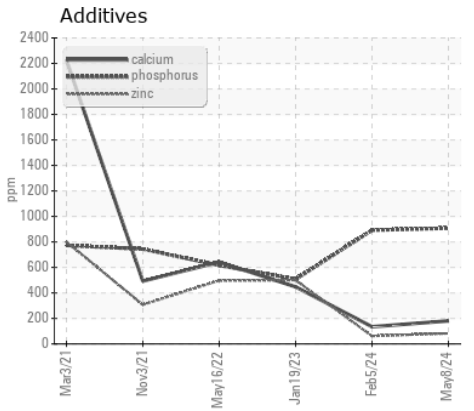
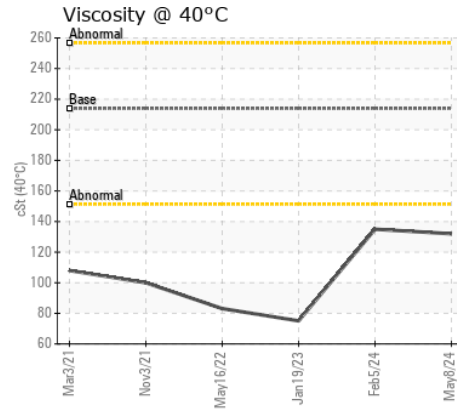
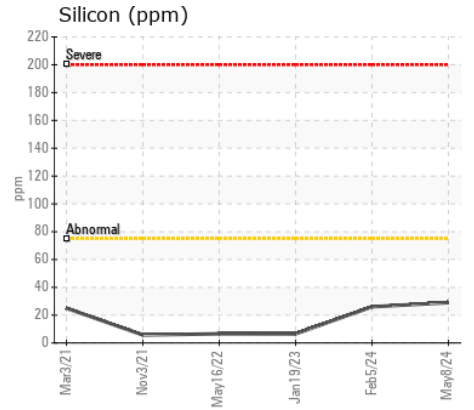
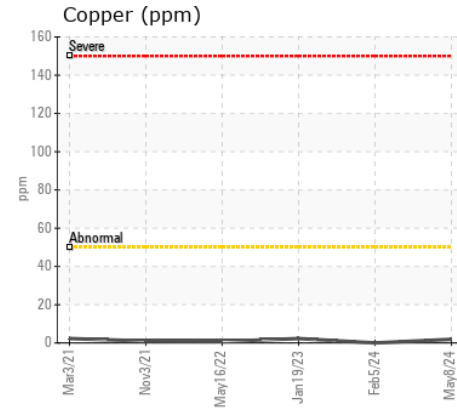
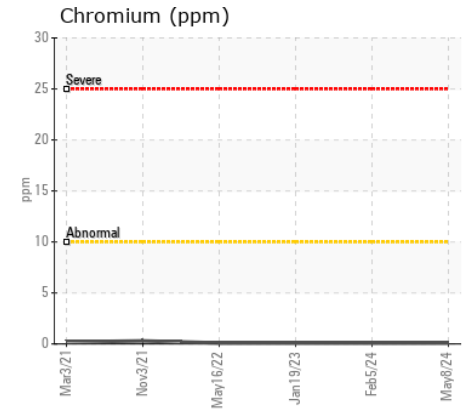
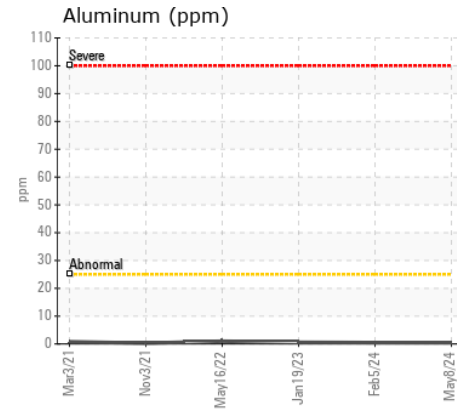
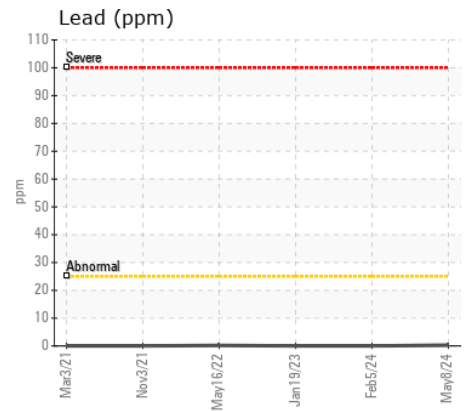
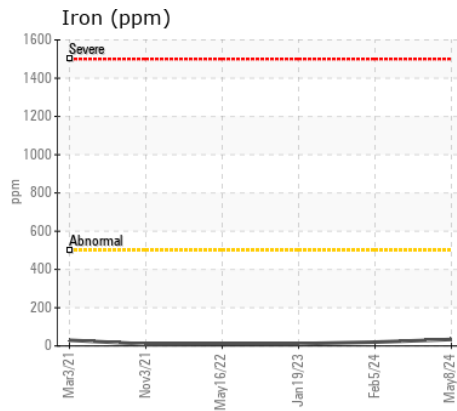
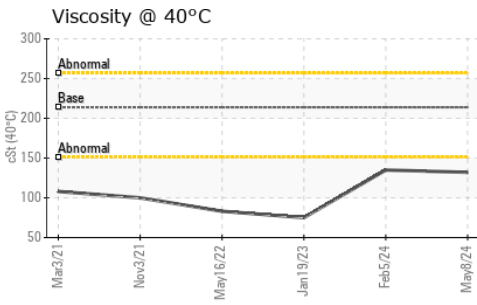
There is no indication of any contamination in the oil.

|                  |        |             |       |              |       |       |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >75   | <b>29</b>    | 26    | 6     |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>2</b>     | 0     | 0     |
| Water            |        | WC Method   | >0.2  | <b>NEG</b>   | NEG   | NEG   |
| Silt             | scalar | *Visual     | NONE  | <b>NONE</b>  | LIGHT | 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   |

**FLUID CONDITION**

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

|             |     |             |       |              |       |      |
|-------------|-----|-------------|-------|--------------|-------|------|
| Sodium      | ppm | ASTM D5185m |       | <b>0</b>     | 0     | 0    |
| Boron       | ppm | ASTM D5185m | 2     | <b>260</b>   | 216   | 34   |
| Barium      | ppm | ASTM D5185m | 0     | <b>0</b>     | 0     | 0    |
| Molybdenum  | ppm | ASTM D5185m | 0     | <b>&lt;1</b> | 0     | 2    |
| Manganese   | ppm | ASTM D5185m | 0     | <b>&lt;1</b> | <1    | <1   |
| Magnesium   | ppm | ASTM D5185m | 9     | <b>5</b>     | 6     | 28   |
| Calcium     | ppm | ASTM D5185m | 3114  | <b>181</b>   | 135   | 448  |
| Phosphorus  | ppm | ASTM D5185m | 1099  | <b>908</b>   | 892   | 508  |
| Zinc        | ppm | ASTM D5185m | 1245  | <b>83</b>    | 62    | 500  |
| Sulfur      | ppm | ASTM D5185m | 7086  | <b>18738</b> | 17858 | 5004 |
| Visc @ 40°C | cSt | ASTM D445   | 213.9 | <b>132</b>   | 135   | 75.1 |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0108505  
**Lab Number** : 06189819  
**Unique Number** : 11046571  
**Test Package** : MOB 1

**Received** : 23 May 2024  
**Tested** : 30 May 2024  
**Diagnosed** : 30 May 2024 - Angela Borella

**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)

T:  
F: