

Area  
**KEMP QUARRIES / KEMP STONE - FAIRLAND [69383]**

Machine Id  
**OHT123**

Component  
**Rear Differential**

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

**RECOMMENDATION**

Resample at the next service interval to monitor. ( Customer Sample Comment: PM-2 sampled fluid )

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>PCA0109046</b>  | PCA0070628  | PCA0084735  |
| Sample Date    |     | Client Info |           | <b>22 May 2024</b> | 02 Jan 2024 | 02 Oct 2023 |
| Machine Age    | hrs | Client Info |           | <b>38485</b>       | 37987       | 37517       |
| Oil Age        | hrs | Client Info |           | <b>38485</b>       | 37987       | 37517       |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>N/A</b>         | N/A         | Changed     |
| Filter Changed |     | Client Info |           | <b>N/A</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>38</b>    | 27   | 63   |
| Chromium     | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | 0    | 3    |
| Nickel       | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | 0    | <1   |
| Titanium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | 0    | 1    |
| Silver       | ppm    | ASTM D5185m |      | <b>1</b>     | 0    | 0    |
| Aluminum     | ppm    | ASTM D5185m | >25  | <b>1</b>     | 2    | 5    |
| Lead         | ppm    | ASTM D5185m | >25  | <b>&lt;1</b> | 0    | 2    |
| Copper       | ppm    | ASTM D5185m | >100 | <b>3</b>     | 3    | 31   |
| Tin          | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | 0    | 1    |
| Vanadium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | 0    | 0    |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |

**CONTAMINATION**

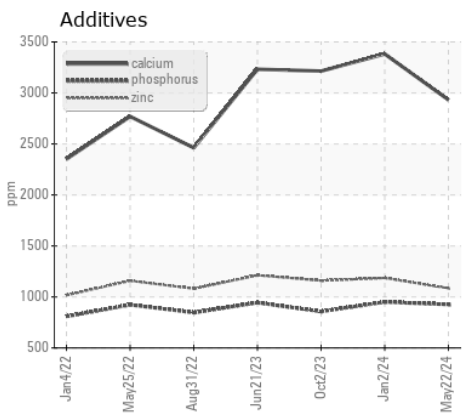
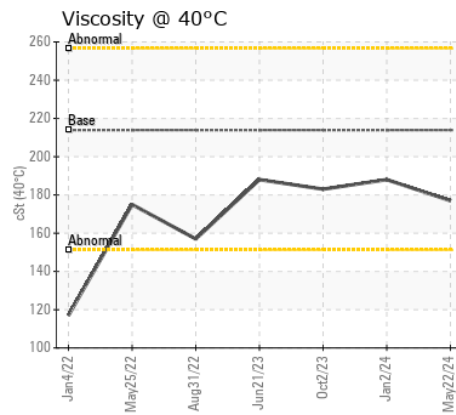
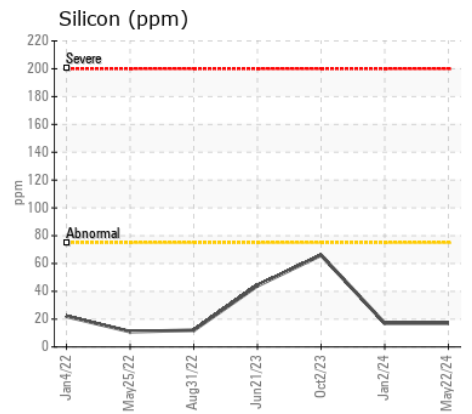
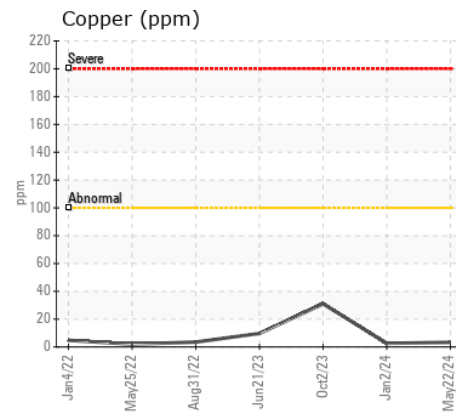
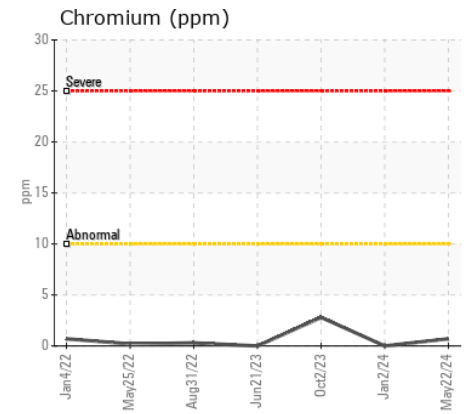
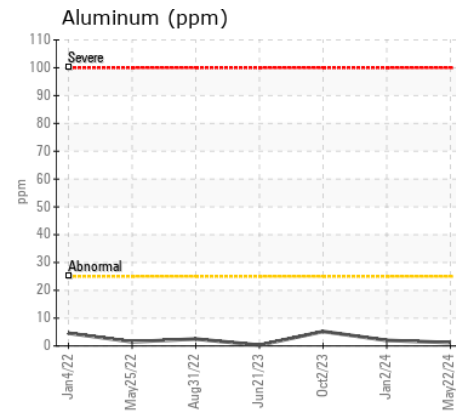
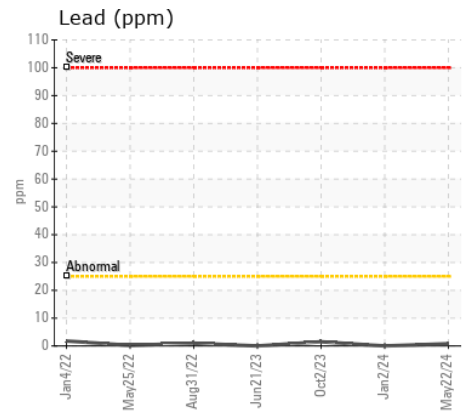
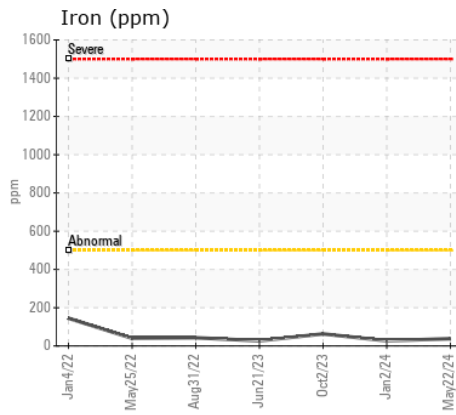
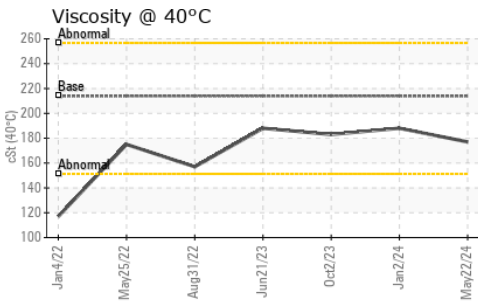
There is no indication of any contamination in the oil.

|                  |        |             |       |              |       |       |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >75   | <b>17</b>    | 17    | 66    |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>2</b>     | 2     | 3     |
| Water            |        | WC Method   | >.2   | <b>NEG</b>   | NEG   | NEG   |
| 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     | >.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    | <1   |
| Boron       | ppm | ASTM D5185m | 2     | <b>0</b>     | 0    | 2    |
| Barium      | ppm | ASTM D5185m | 0     | <b>0</b>     | 0    | 0    |
| Molybdenum  | ppm | ASTM D5185m | 0     | <b>1</b>     | <1   | 2    |
| Manganese   | ppm | ASTM D5185m | 0     | <b>&lt;1</b> | 0    | <1   |
| Magnesium   | ppm | ASTM D5185m | 9     | <b>14</b>    | 14   | 18   |
| Calcium     | ppm | ASTM D5185m | 3114  | <b>2932</b>  | 3382 | 3214 |
| Phosphorus  | ppm | ASTM D5185m | 1099  | <b>926</b>   | 950  | 857  |
| Zinc        | ppm | ASTM D5185m | 1245  | <b>1085</b>  | 1186 | 1160 |
| Sulfur      | ppm | ASTM D5185m | 7086  | <b>4469</b>  | 4455 | 4752 |
| Visc @ 40°C | cSt | ASTM D445   | 213.9 | <b>177</b>   | 188  | 183  |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0109046  
**Lab Number** : 06193089  
**Unique Number** : 11049841  
**Test Package** : MOB 1

**Received** : 28 May 2024  
**Tested** : 30 May 2024  
**Diagnosed** : 30 May 2024 - Sean Felton

**Kemp Quarries - Kemp Stone - Fairland**  
 18350 S 590 Rd  
 Fairland, OK  
 US 74343

Contact: fairland@kempstone.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: