



OIL ANALYSIS REPORT

|                 |        |
|-----------------|--------|
| WEAR            | NORMAL |
| CONTAMINATION   | NORMAL |
| FLUID CONDITION | NORMAL |

Area  
**KEMP QUARRIES / KEMP STONE - FAIRLAND [67744]**

Machine Id  
**OHT123**

Component  
**Rear Differential**

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

**RECOMMENDATION**

( Customer Sample Comment: PM-1 sampled fluid )

| Test           | UOM | Method      | Limit/Abn | Current     | History1    | History2    |
|----------------|-----|-------------|-----------|-------------|-------------|-------------|
| Sample Number  |     | Client Info |           | PCA0070628  | PCA0084735  | PCA0086311  |
| Sample Date    |     | Client Info |           | 02 Jan 2024 | 02 Oct 2023 | 21 Jun 2023 |
| Machine Age    | hrs | Client Info |           | 37987       | 37517       | 37279       |
| Oil Age        | hrs | Client Info |           | 37987       | 37517       | 37279       |
| Filter Age     | hrs | Client Info |           | 0           | 0           | 0           |
| Oil Changed    |     | Client Info |           | N/A         | Changed     | N/A         |
| Filter Changed |     | Client Info |           | N/A         | N/A         | N/A         |
| Sample Status  |     |             |           | NORMAL      | NORMAL      | ATTENTION   |

**WEAR**

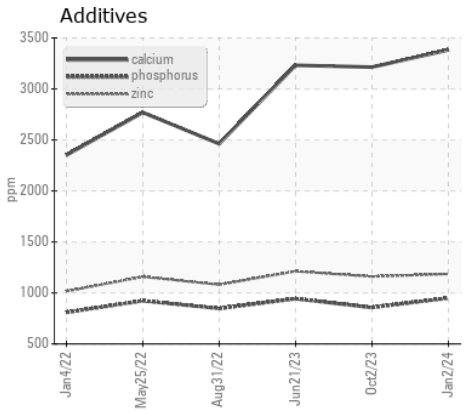
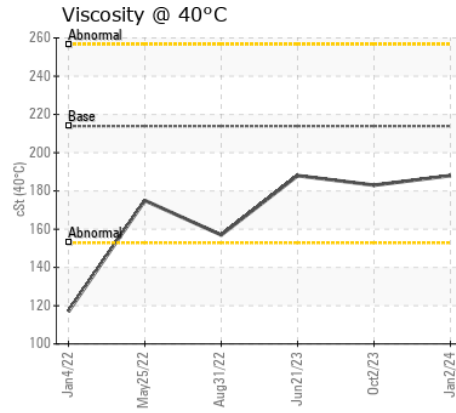
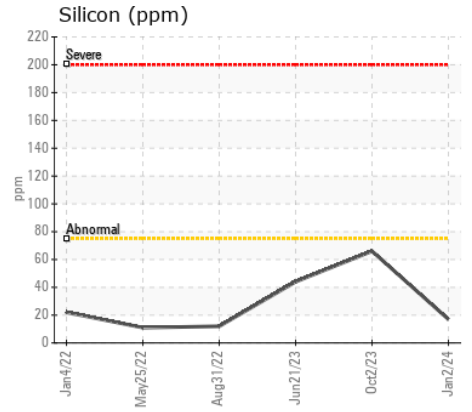
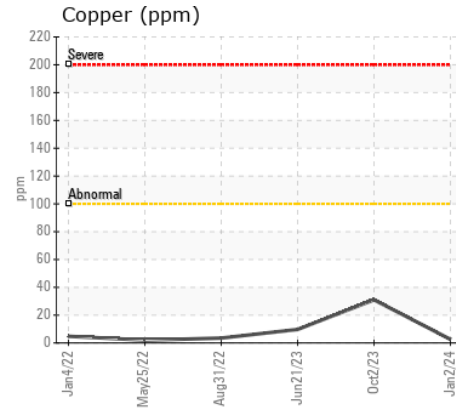
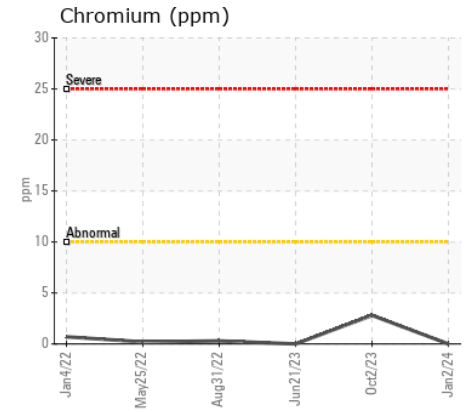
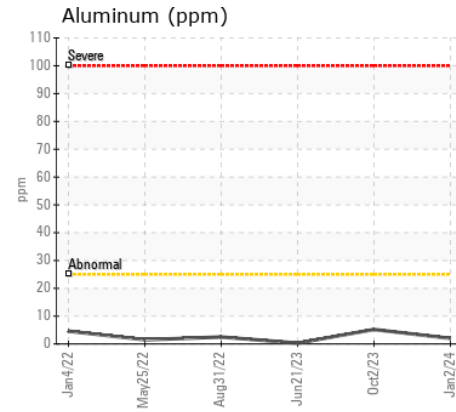
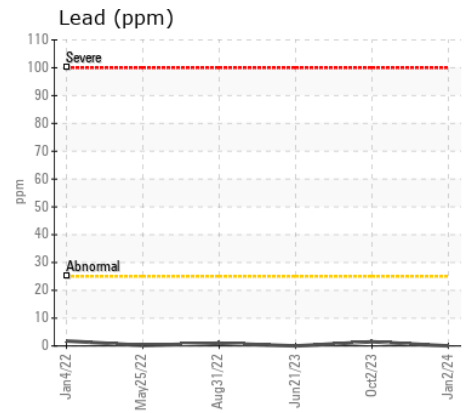
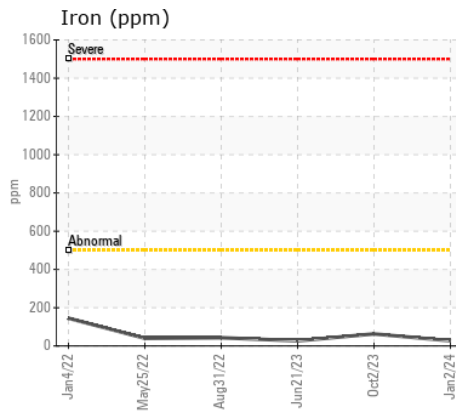
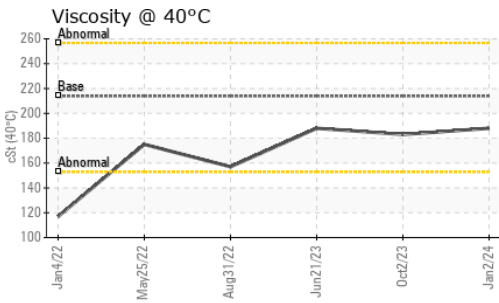
|              |        |             |      |      |      |      |
|--------------|--------|-------------|------|------|------|------|
| Iron         | ppm    | ASTM D5185m | >500 | 27   | 63   | 27   |
| Chromium     | ppm    | ASTM D5185m | >10  | 0    | 3    | 0    |
| Nickel       | ppm    | ASTM D5185m | >10  | 0    | <1   | 0    |
| Titanium     | ppm    | ASTM D5185m |      | 0    | 1    | 1    |
| Silver       | ppm    | ASTM D5185m |      | 0    | 0    | 0    |
| Aluminum     | ppm    | ASTM D5185m | >25  | 2    | 5    | <1   |
| Lead         | ppm    | ASTM D5185m | >25  | 0    | 2    | 0    |
| Copper       | ppm    | ASTM D5185m | >100 | 3    | 31   | 10   |
| Tin          | ppm    | ASTM D5185m | >10  | 0    | 1    | <1   |
| Vanadium     | ppm    | ASTM D5185m |      | 0    | 0    | 0    |
| White Metal  | scalar | *Visual     | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual     | NONE | NONE | NONE | NONE |

**CONTAMINATION**

|                  |        |             |       |       |       |       |
|------------------|--------|-------------|-------|-------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >75   | 17    | 66    | 44    |
| Potassium        | ppm    | ASTM D5185m | >20   | 2     | 3     | <1    |
| Water            |        | WC Method   | >.2   | NEG   | NEG   | NEG   |
| Silt             | scalar | *Visual     | NONE  | NONE  | NONE  | NONE  |
| Debris           | scalar | *Visual     | NONE  | NONE  | NONE  | NONE  |
| Sand/Dirt        | scalar | *Visual     | NONE  | NONE  | NONE  | NONE  |
| Appearance       | scalar | *Visual     | NORML | NORML | NORML | HAZY  |
| Odor             | scalar | *Visual     | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual     | >.2   | NEG   | NEG   | 0.2%  |

**FLUID CONDITION**

|             |     |             |       |      |      |      |
|-------------|-----|-------------|-------|------|------|------|
| Sodium      | ppm | ASTM D5185m |       | 0    | <1   | <1   |
| Boron       | ppm | ASTM D5185m | 2     | 0    | 2    | <1   |
| Barium      | ppm | ASTM D5185m | 0     | 0    | 0    | 14   |
| Molybdenum  | ppm | ASTM D5185m | 0     | <1   | 2    | 2    |
| Manganese   | ppm | ASTM D5185m | 0     | 0    | <1   | <1   |
| Magnesium   | ppm | ASTM D5185m | 9     | 14   | 18   | 32   |
| Calcium     | ppm | ASTM D5185m | 3114  | 3382 | 3214 | 3232 |
| Phosphorus  | ppm | ASTM D5185m | 1099  | 950  | 857  | 944  |
| Zinc        | ppm | ASTM D5185m | 1245  | 1186 | 1160 | 1213 |
| Sulfur      | ppm | ASTM D5185m | 7086  | 4455 | 4752 | 5210 |
| Visc @ 40°C | cSt | ASTM D445   | 213.9 | 188  | 183  | 188  |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0070628 **Received** : 10 Jan 2024  
**Lab Number** : 06057491 **Diagnosed** : 12 Jan 2024  
**Unique Number** : 10823440 **Diagnostician** : Sean Felton  
**Test Package** : MOB 1

**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: