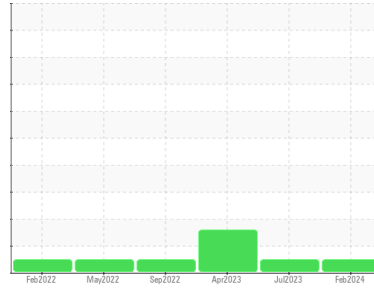


# OIL ANALYSIS REPORT



Area  
**KEMP QUARRIES / BCS - GRAVETTE [66901]**  
Machine Id  
**OHT118**  
Component  
**Rear Differential**  
Fluid  
**PETRO CANADA TRAXON 80W90 (--- GAL)**

Sample Rating Trend



**NORMAL**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Pm3 )

### 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>PCA0108534</b>  | PCA0086403  | PCA0085992  |
| Sample Date   | Client Info |             | <b>06 Feb 2024</b> | 28 Jul 2023 | 18 Apr 2023 |
| Machine Age   | hrs         | Client Info | <b>78920</b>       | 78920       | 78734       |
| Oil Age       | hrs         | Client Info | <b>77947</b>       | 78920       | 78734       |
| Oil Changed   | Client Info |             | <b>N/A</b>         | N/A         | N/A         |
| Sample Status |             |             | <b>NORMAL</b>      | NORMAL      | ATTENTION   |

## 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>42</b>    | 36       | 29       |
| Chromium | ppm    | ASTM D5185m >3   | <b>&lt;1</b> | <1       | <1       |
| Nickel   | ppm    | ASTM D5185m >3   | <b>0</b>     | 0        | 0        |
| Titanium | ppm    | ASTM D5185m >2   | <b>&lt;1</b> | <1       | <1       |
| Silver   | ppm    | ASTM D5185m >2   | <b>0</b>     | <1       | 0        |
| Aluminum | ppm    | ASTM D5185m >30  | <b>1</b>     | 2        | <1       |
| Lead     | ppm    | ASTM D5185m >13  | <b>&lt;1</b> | 0        | 0        |
| Copper   | ppm    | ASTM D5185m >103 | <b>4</b>     | 4        | 3        |
| Tin      | ppm    | ASTM D5185m >5   | <b>0</b>     | 0        | 0        |
| Vanadium | ppm    | ASTM D5185m      | <b>0</b>     | 0        | 0        |
| Cadmium  | ppm    | ASTM D5185m      | <b>0</b>     | 0        | 0        |

## ADDITIVES

|            | method | limit/base        | current      | history1 | history2 |
|------------|--------|-------------------|--------------|----------|----------|
| Boron      | ppm    | ASTM D5185m 243   | <b>94</b>    | 64       | 56       |
| Barium     | ppm    | ASTM D5185m 1     | <b>0</b>     | 0        | 0        |
| Molybdenum | ppm    | ASTM D5185m       | <b>0</b>     | 0        | 1        |
| Manganese  | ppm    | ASTM D5185m       | <b>&lt;1</b> | <1       | <1       |
| Magnesium  | ppm    | ASTM D5185m 2     | <b>21</b>    | 23       | 23       |
| Calcium    | ppm    | ASTM D5185m 6     | <b>1927</b>  | 2455     | 2470     |
| Phosphorus | ppm    | ASTM D5185m 987   | <b>978</b>   | 986      | 969      |
| Zinc       | ppm    | ASTM D5185m 1     | <b>842</b>   | 1022     | 1017     |
| Sulfur     | ppm    | ASTM D5185m 21530 | <b>10162</b> | 8292     | 7886     |

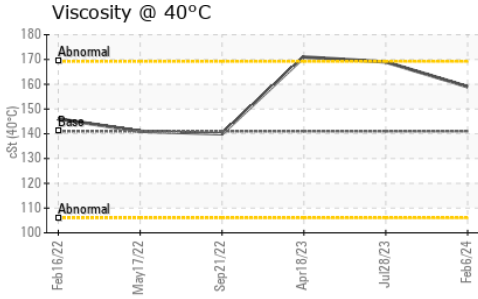
## CONTAMINANTS

|           | method | limit/base       | current   | history1 | history2 |
|-----------|--------|------------------|-----------|----------|----------|
| Silicon   | ppm    | ASTM D5185m >100 | <b>29</b> | 11       | 11       |
| Sodium    | ppm    | ASTM D5185m      | <b>0</b>  | 1        | 1        |
| 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     | MODER    |
| 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 >.2   | <b>NEG</b>   | NEG      | NEG      |
| Free Water       | scalar | *Visual       | <b>NEG</b>   | NEG      | NEG      |

# OIL ANALYSIS REPORT

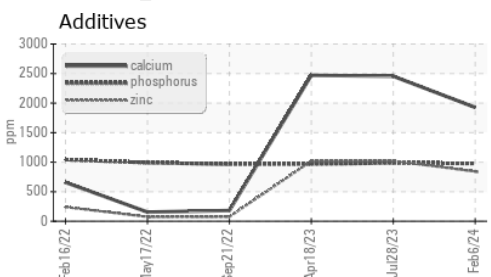
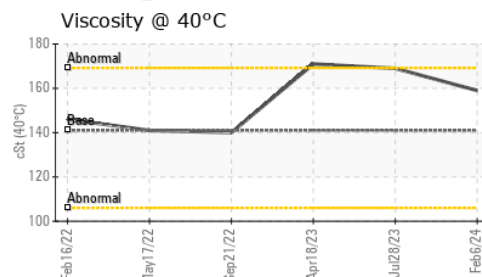
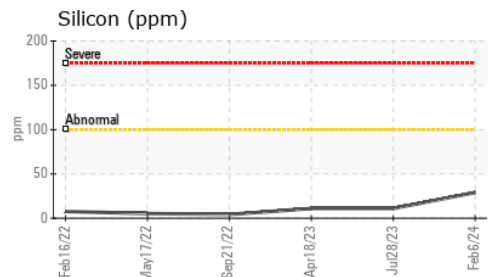
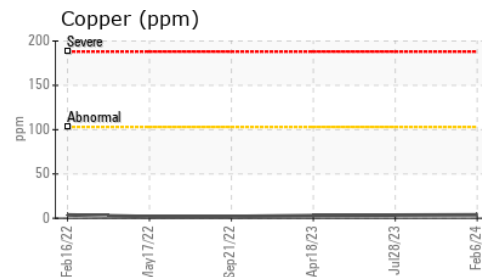
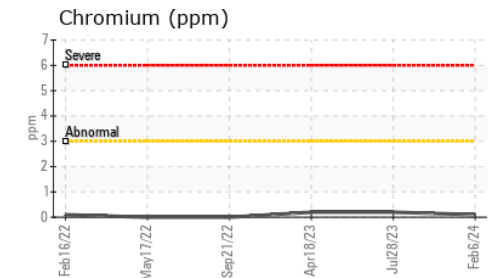
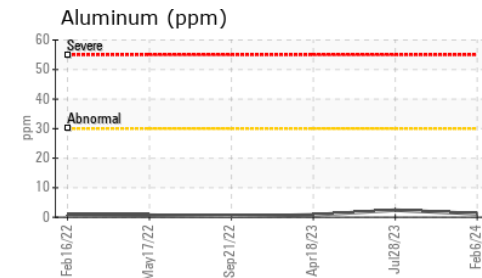
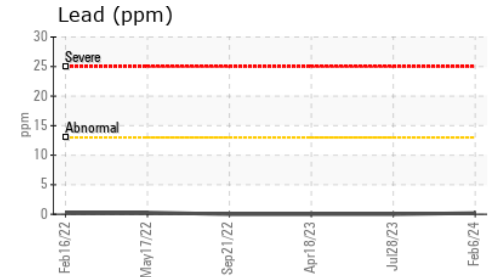
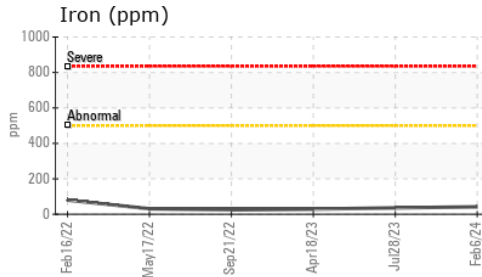


| FLUID PROPERTIES | method | limit/base | current | history1   | history2 |
|------------------|--------|------------|---------|------------|----------|
| Visc @ 40°C      | cSt    | ASTM D445  | 141.0   | <b>159</b> | 169      |

| 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.** : PCA0108534  
**Lab Number** : 06101195  
**Unique Number** : 10899425  
**Test Package** : MOB 1

**Received** : 26 Feb 2024  
**Tested** : 28 Feb 2024  
**Diagnosed** : 28 Feb 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)

T:  
F: