



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**RONI**  
 Machine Id  
**453**  
 Component  
**Right Final Drive**  
 Fluid  
**PETRO CANADA 10W30 (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### 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>WC0888421</b>   | ---      | ---      |
| Sample Date   | Client Info |             | <b>20 Dec 2023</b> | ---      | ---      |
| Machine Age   | hrs         | Client Info | <b>0</b>           | ---      | ---      |
| Oil Age       | hrs         | Client Info | <b>0</b>           | ---      | ---      |
| Oil Changed   | Client Info |             | <b>Changed</b>     | ---      | ---      |
| Sample Status |             |             | <b>NORMAL</b>      | ---      | ---      |

## CONTAMINATION

|       | method    | limit/base | current    | history1 | history2 |
|-------|-----------|------------|------------|----------|----------|
| Water | WC Method | >0.2       | <b>NEG</b> | ---      | ---      |

## WEAR METALS

|           | method | limit/base    | current | history1     | history2 |
|-----------|--------|---------------|---------|--------------|----------|
| Iron      | ppm    | ASTM D5185(m) | >800    | <b>189</b>   | ---      |
| Chromium  | ppm    | ASTM D5185(m) | >10     | <b>5</b>     | ---      |
| Nickel    | ppm    | ASTM D5185(m) | >5      | <b>&lt;1</b> | ---      |
| Titanium  | ppm    | ASTM D5185(m) | >15     | <b>0</b>     | ---      |
| Silver    | ppm    | ASTM D5185(m) | >2      | <b>0</b>     | ---      |
| Aluminum  | ppm    | ASTM D5185(m) | >75     | <b>12</b>    | ---      |
| Lead      | ppm    | ASTM D5185(m) | >10     | <b>0</b>     | ---      |
| Copper    | ppm    | ASTM D5185(m) | >75     | <b>&lt;1</b> | ---      |
| Tin       | ppm    | ASTM D5185(m) | >8      | <b>0</b>     | ---      |
| Antimony  | ppm    | ASTM D5185(m) | >50     | <b>0</b>     | ---      |
| Vanadium  | ppm    | ASTM D5185(m) |         | <b>0</b>     | ---      |
| Beryllium | ppm    | ASTM D5185(m) |         | <b>0</b>     | ---      |
| Cadmium   | ppm    | ASTM D5185(m) |         | <b>0</b>     | ---      |

## ADDITIVES

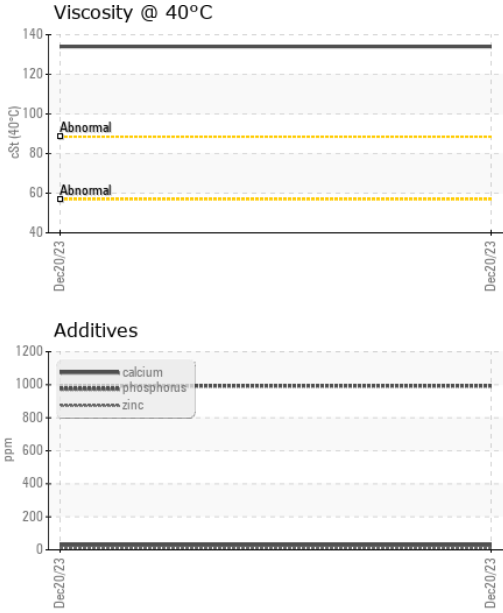
|            | method | limit/base    | current | history1     | history2 |
|------------|--------|---------------|---------|--------------|----------|
| Boron      | ppm    | ASTM D5185(m) |         | <b>239</b>   | ---      |
| Barium     | ppm    | ASTM D5185(m) |         | <b>0</b>     | ---      |
| Molybdenum | ppm    | ASTM D5185(m) |         | <b>0</b>     | ---      |
| Manganese  | ppm    | ASTM D5185(m) |         | <b>2</b>     | ---      |
| Magnesium  | ppm    | ASTM D5185(m) |         | <b>7</b>     | ---      |
| Calcium    | ppm    | ASTM D5185(m) |         | <b>29</b>    | ---      |
| Phosphorus | ppm    | ASTM D5185(m) |         | <b>993</b>   | ---      |
| Zinc       | ppm    | ASTM D5185(m) |         | <b>10</b>    | ---      |
| Sulfur     | ppm    | ASTM D5185(m) |         | <b>17534</b> | ---      |
| Lithium    | ppm    | ASTM D5185(m) |         | <b>&lt;1</b> | ---      |

## CONTAMINANTS

|           | method | limit/base    | current | history1  | history2 |
|-----------|--------|---------------|---------|-----------|----------|
| Silicon   | ppm    | ASTM D5185(m) | >400    | <b>68</b> | ---      |
| Sodium    | ppm    | ASTM D5185(m) |         | <b>4</b>  | ---      |
| Potassium | ppm    | ASTM D5185(m) | >20     | <b>6</b>  | ---      |



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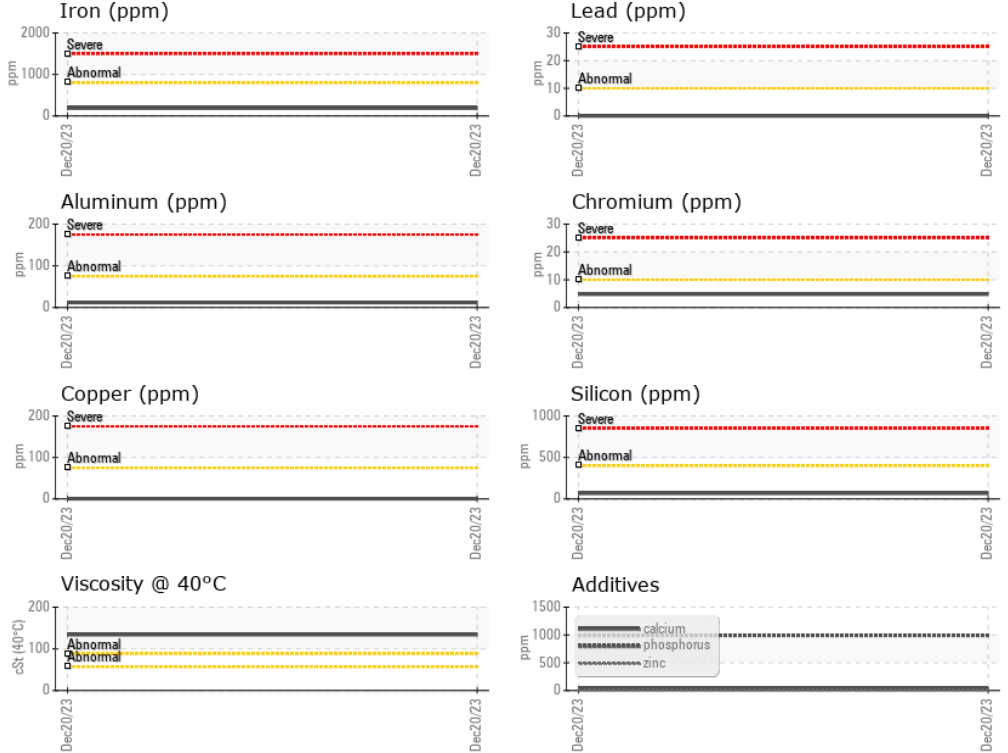
| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | Visual*    | NONE    | ---      | ---      |
| Yellow Metal     | scalar | Visual*    | NONE    | ---      | ---      |
| Precipitate      | scalar | Visual*    | NONE    | ---      | ---      |
| Silt             | scalar | Visual*    | NONE    | ---      | ---      |
| Debris           | scalar | Visual*    | NONE    | ---      | ---      |
| Sand/Dirt        | scalar | Visual*    | NONE    | ---      | ---      |
| Appearance       | scalar | Visual*    | NORML   | ---      | ---      |
| Odor             | scalar | Visual*    | NORML   | ---      | ---      |
| Emulsified Water | scalar | Visual*    | >0.2    | ---      | ---      |
| Free Water       | scalar | Visual*    | ---     | ---      | ---      |

| FLUID PROPERTIES | method | limit/base    | current    | history1 | history2 |
|------------------|--------|---------------|------------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D7279(m) | <b>134</b> | ---      | ---      |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|

|        |  |          |          |
|--------|--|----------|----------|
| Color  |  | no image | no image |
| Bottom |  | no image | no image |

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **RONI/IRON SHORE EXCAVATING LTD.**  
**Sample No.** : WC0888421 **Recieved** : 27 Dec 2023 **100 MACINTOSH BLVD**  
**Lab Number** : **02605428** **Diagnosed** : 27 Dec 2023 **VAUGHAN, ON**  
**Unique Number** : 5698513 **Diagnostician** : Wes Davis **CA L4K 4P3**  
**Test Package** : MOBCE ( Additional Tests: Visual ) **Contact: Service Team**  
**service.team@roni.ca**

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.