



# OIL ANALYSIS REPORT

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

Machine Id  
**CATERPILLAR R1600H SCP201**  
 Component  
**Rear Left Planetary**  
 Fluid  
**PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>WC0890051</b>   | WC0584383   | WC0539670   |
| Sample Date    |     | Client Info |           | <b>24 Dec 2023</b> | 02 May 2023 | 24 Jan 2021 |
| Machine Age    | hrs | Client Info |           | <b>11727</b>       | 0           | 4990        |
| Oil Age        | hrs | Client Info |           | <b>0</b>           | 0           | 1000        |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | N/A         | Changed     |
| Filter Changed |     | Client Info |           | <b>Changed</b>     | N/A         | N/A         |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

## WEAR

All component wear rates are normal.

|              |        |               |      |              |      |      |
|--------------|--------|---------------|------|--------------|------|------|
| Iron         | ppm    | ASTM D5185(m) | >500 | <b>16</b>    | 4    | 32   |
| Chromium     | ppm    | ASTM D5185(m) | >10  | <b>0</b>     | 0    | <1   |
| Nickel       | ppm    | ASTM D5185(m) | >10  | <b>0</b>     | 0    | <1   |
| Titanium     | ppm    | ASTM D5185(m) |      | <b>0</b>     | <1   | <1   |
| Silver       | ppm    | ASTM D5185(m) |      | <b>0</b>     | 0    | <1   |
| Aluminum     | ppm    | ASTM D5185(m) | >25  | <b>1</b>     | 1    | 1    |
| Lead         | ppm    | ASTM D5185(m) | >25  | <b>0</b>     | <1   | <1   |
| Copper       | ppm    | ASTM D5185(m) | >75  | <b>&lt;1</b> | <1   | 20   |
| Tin          | ppm    | ASTM D5185(m) | >10  | <b>0</b>     | 0    | <1   |
| Vanadium     | ppm    | ASTM D5185(m) |      | <b>0</b>     | 0    | 0    |
| White Metal  | scalar | Visual*       | NONE | <b>NONE</b>  | NONE | NONE |
| Yellow Metal | scalar | Visual*       | NONE | <b>NONE</b>  | NONE | NONE |

## CONTAMINATION

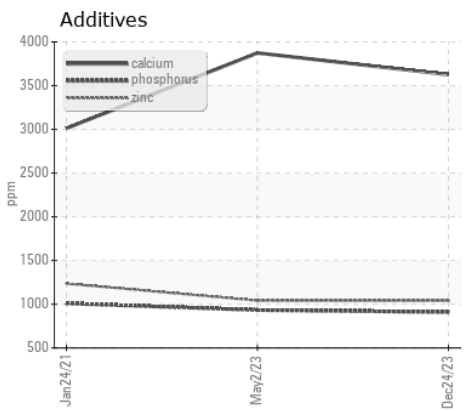
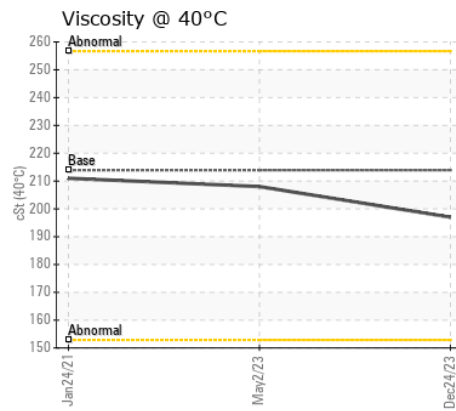
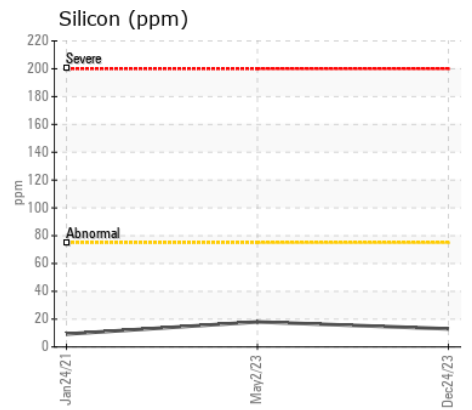
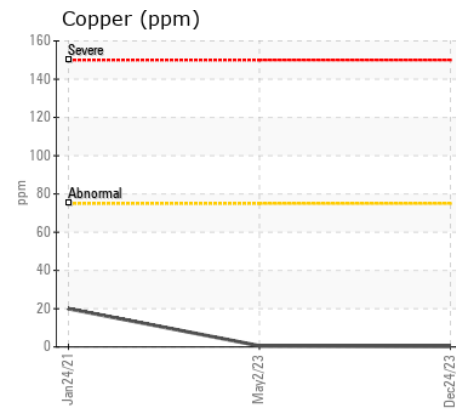
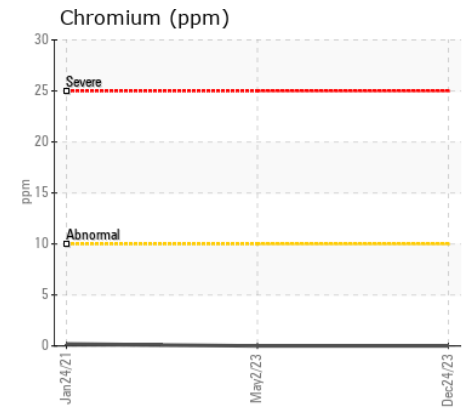
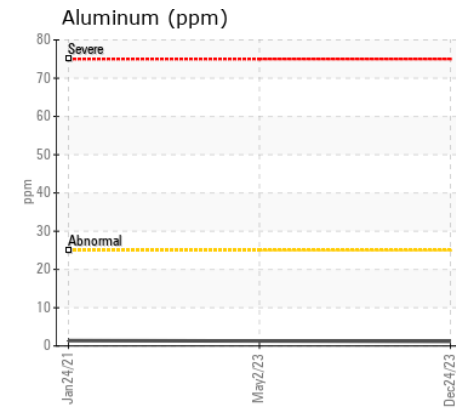
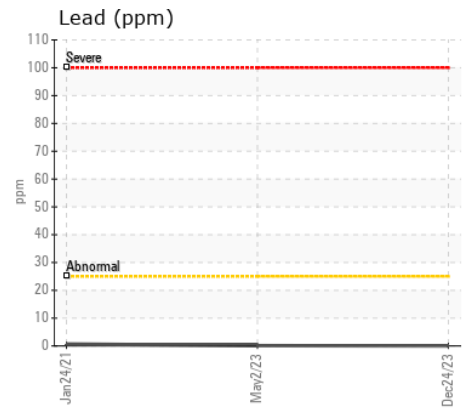
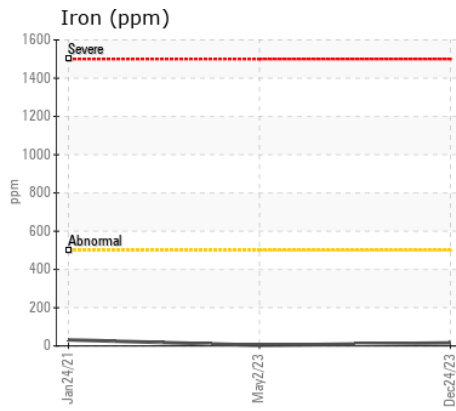
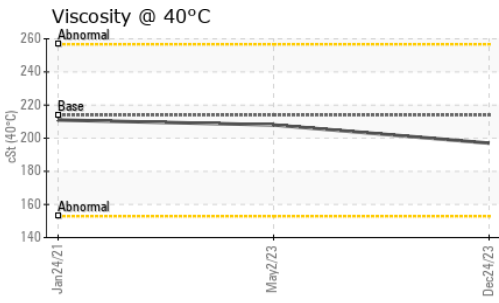
There is no indication of any contamination in the oil.

|                  |        |               |       |              |       |       |
|------------------|--------|---------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185(m) | >75   | <b>13</b>    | 18    | 9     |
| Potassium        | ppm    | ASTM D5185(m) | >20   | <b>4</b>     | 0     | <1    |
| Water            |        | WC Method     | >0.2  | <b>NEG</b>   | NEG   | NEG   |
| Silt             | scalar | Visual*       | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Debris           | scalar | Visual*       | NONE  | <b>VLITE</b> | NONE  | NONE  |
| Sand/Dirt        | scalar | Visual*       | NONE  | <b>NONE</b>  | NONE  | VLITE |
| 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 D5185(m) |       | <b>&lt;1</b> | <1   | 4    |
| Boron       | ppm | ASTM D5185(m) | 2     | <b>&lt;1</b> | 2    | 3    |
| Barium      | ppm | ASTM D5185(m) | 0     | <b>0</b>     | 0    | <1   |
| Molybdenum  | ppm | ASTM D5185(m) | 0     | <b>0</b>     | <1   | <1   |
| Manganese   | ppm | ASTM D5185(m) | 0     | <b>0</b>     | <1   | <1   |
| Magnesium   | ppm | ASTM D5185(m) | 9     | <b>12</b>    | 13   | 10   |
| Calcium     | ppm | ASTM D5185(m) | 3114  | <b>3626</b>  | 3874 | 3012 |
| Phosphorus  | ppm | ASTM D5185(m) | 1099  | <b>910</b>   | 933  | 1009 |
| Zinc        | ppm | ASTM D5185(m) | 1245  | <b>1041</b>  | 1042 | 1236 |
| Sulfur      | ppm | ASTM D5185(m) | 7086  | <b>11262</b> | 9881 | 5513 |
| Visc @ 40°C | cSt | ASTM D7279(m) | 213.9 | <b>197</b>   | 208  | 211  |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0890051 **Received** : 11 Jan 2024  
**Lab Number** : 02608282 **Diagnosed** : 11 Jan 2024  
**Unique Number** : 5709368 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

**Agnico Eagle Canada**  
 1350 Government Rd. W, MACASSA COMPLEX  
 Kirkland Lake, ON  
 CA P2N 3J1  
 Contact: Jay Gould  
 MacassaMobileUGPlanning@agnicoeagle.com  
 T: (705)567-5208  
 F: (705)567-5221

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.