

# WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION ABNORMAL



# CATERPILLAR 1600G SCOOP 213

Front Left Planetary

DIESEL ENGINE OIL SAE 50 (--- GAL)

| 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**

Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the oil is acceptable for the time in service.

| GAL)             |        |               |           |             |             |          |
|------------------|--------|---------------|-----------|-------------|-------------|----------|
| Test             | UOM    | Method        | Limit/Abn | Current     | History1    | History2 |
| Sample Number    |        | Client Info   |           | WC0952477   | WC0879711   |          |
| Sample Date      |        | Client Info   |           | 02 Jul 2024 | 22 Nov 2023 |          |
| Machine Age      | hrs    | Client Info   |           | 18405       | 0           |          |
| Oil Age          | hrs    | Client Info   |           | 0           | 0           |          |
| Filter Age       | hrs    | Client Info   |           | 0           | 0           |          |
| Oil Changed      |        | Client Info   |           | Changed     | Changed     |          |
| Filter Changed   |        | Client Info   |           | N/A         | Changed     |          |
| Sample Status    |        |               |           | ABNORMAL    | ABNORMAL    |          |
| Iron             |        |               | >500      | 7           | 23          |          |
| Chromium         | ppm    | ASTM D5185(m) |           | 0           | 0           |          |
|                  | ppm    | ASTM D5185(m) | >10       | -           |             |          |
| Nickel           | ppm    | ASTM D5185(m) | >10       | <1          | <1          |          |
| Titanium         | ppm    | ASTM D5185(m) |           | 0           | 0           |          |
| Silver           | ppm    | ASTM D5185(m) | 05        | 0           | <1          |          |
| Aluminum         | ppm    | ASTM D5185(m) | >25       | 1           | 2           |          |
| Lead             | ppm    | ASTM D5185(m) | >25       | 0           | <1          |          |
| Copper           | ppm    | ASTM D5185(m) | >75       | 2           | 6           |          |
| Tin              | ppm    | ASTM D5185(m) | >10       | 0           | 0           |          |
| Vanadium         | ppm    | ASTM D5185(m) |           | 0           | 0           |          |
| White Metal      | scalar | Visual*       | NONE      | VLITE       | NONE        |          |
| Yellow Metal     | scalar | Visual*       | NONE      | NONE        | NONE        |          |
| Silicon          | ppm    | ASTM D5185(m) | >75       | 6           | 8           |          |
| Potassium        | ppm    | ASTM D5185(m) | >20       | <1          | 0           |          |
| Water            |        | WC Method     | >0.2      | NEG         | NEG         |          |
| Silt             | scalar | Visual*       | NONE      | NONE        | NONE        |          |
| Debris           | scalar | Visual*       | NONE      | LIGHT       | NONE        |          |
| Sand/Dirt        | scalar | Visual*       | NONE      | NONE        | NONE        |          |
| Appearance       | scalar | Visual*       | NORML     | NORML       | NORML       |          |
| Odor             | scalar | Visual*       | NORML     | NORML       | NORML       |          |
| Emulsified Water | scalar | Visual*       | >0.2      | NEG         | NEG         |          |
| Sodium           | ppm    | ASTM D5185(m) |           | 1           | 2           |          |
| Boron            | ppm    | ASTM D5185(m) | 250       | 36          | 24          |          |
| Barium           | ppm    | ASTM D5185(m) | 10        | 0           | <1          |          |
| Molybdenum       | ppm    | ASTM D5185(m) | 100       | 21          | 30          |          |
| Manganese        | ppm    | ASTM D5185(m) |           | <1          | 0           |          |
| Magnesium        | ppm    | ASTM D5185(m) | 450       | 262         | 438         |          |
| Calcium          | ppm    | ASTM D5185(m) | 3000      | 1902        | 1500        |          |
| Phosphorus       | ppm    | ASTM D5185(m) | 1150      | 682         | 752         |          |
| Zinc             | ppm    | ASTM D5185(m) | 1350      | 812         | 873         |          |
| Sulfur           | ppm    | ASTM D5185(m) | 4250      | 4363        | 4072        |          |
| Vice @ 40°C      | 0°t    | ASTM D7270(m) | 104       | 105         | 01.1        |          |

Visc @ 40°C

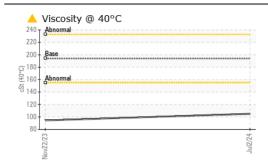
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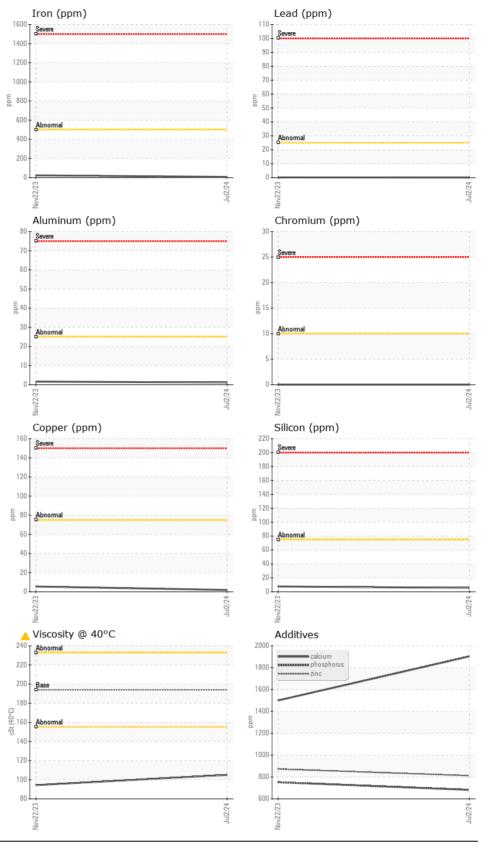
ASTM D7279(m) 194

Contact/Location: Mike Campbell - KIR370KIR

94.4

**105** 





Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Agnico Eagle Canada CALA Sample No. Received 1350 Government Rd. W, MACASSA COMPLEX : WC0952477 : 04 Jul 2024 Lab Number : 02645569 Tested : 04 Jul 2024 Kirkland Lake, ON ISO 17025:2017 Diagnosed Accredited Unique Number : 5803108 : 05 Jul 2024 - Kevin Marson CA P2N 3J1 Laboratory Test Package : MOB 1 Contact: Mike Campbell To discuss this sample report, contact Customer Service at 1-800-268-2131. mike.campbell@agnicoeagle.com T: (705)567-5208 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. F: (705)567-5221

Contact/Location: Mike Campbell - KIR370KIR Page 2 of 2