



|                 |               |
|-----------------|---------------|
| WEAR            | <b>NORMAL</b> |
| CONTAMINATION   | <b>NORMAL</b> |
| FLUID CONDITION | <b>NORMAL</b> |

Machine Id  
**675 COCHRANE DR WEST TOWER CROWN PROPERTY TO4239D231230**

Component  
**Right Diesel Engine**

Fluid  
**ESSO XD-3 EXTRA 15W40 (20 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>PN0005810</b>   | PN0004730   | PN0003363   |
| Sample Date    |     | Client Info |           | <b>04 Mar 2024</b> | 31 Mar 2023 | 15 Mar 2022 |
| Machine Age    | hrs | Client Info |           | <b>463</b>         | 438         | 390         |
| Oil Age        | hrs | Client Info |           | <b>25</b>          | 49          | 0           |
| Filter Age     | hrs | Client Info |           | <b>25</b>          | 49          | 0           |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | Changed     | Changed     |
| Filter Changed |     | Client Info |           | <b>Changed</b>     | Changed     | Changed     |
| Sample Status  |     |             |           | <b>NORMAL</b>      | MARGINAL    | ABNORMAL    |

**WEAR**

Metal levels are typical for a new component breaking in.

|          |     |               |      |              |    |    |
|----------|-----|---------------|------|--------------|----|----|
| Iron     | ppm | ASTM D5185(m) | >100 | <b>2</b>     | 3  | 3  |
| Chromium | ppm | ASTM D5185(m) | >20  | <b>0</b>     | 0  | 0  |
| Nickel   | ppm | ASTM D5185(m) | >4   | <b>0</b>     | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) |      | <b>0</b>     | <1 | 0  |
| Silver   | ppm | ASTM D5185(m) | >3   | <b>0</b>     | <1 | 0  |
| Aluminum | ppm | ASTM D5185(m) | >20  | <b>1</b>     | 2  | 1  |
| Lead     | ppm | ASTM D5185(m) | >40  | <b>&lt;1</b> | <1 | <1 |
| Copper   | ppm | ASTM D5185(m) | >330 | <b>&lt;1</b> | <1 | <1 |
| Tin      | ppm | ASTM D5185(m) | >15  | <b>0</b>     | <1 | <1 |
| Vanadium | ppm | ASTM D5185(m) |      | <b>0</b>     | 0  | 0  |

**CONTAMINATION**

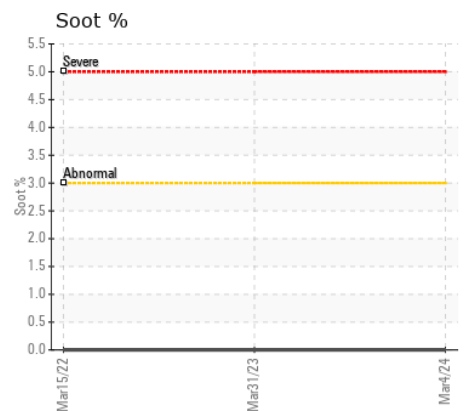
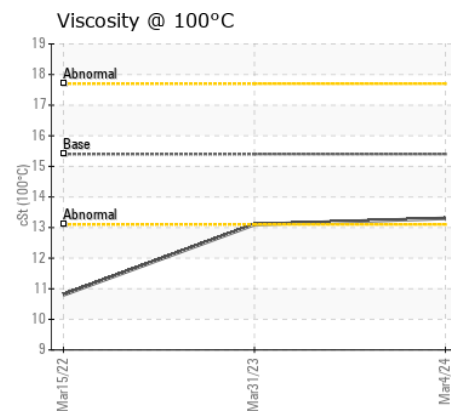
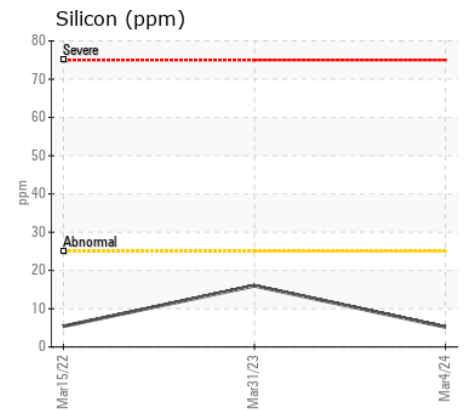
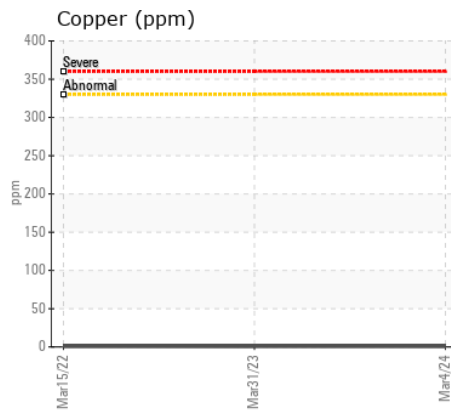
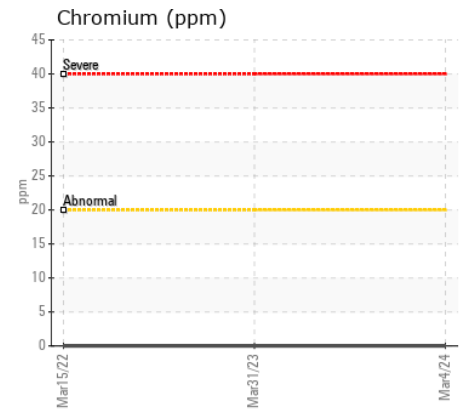
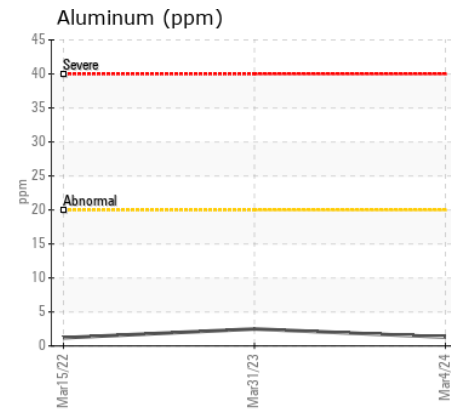
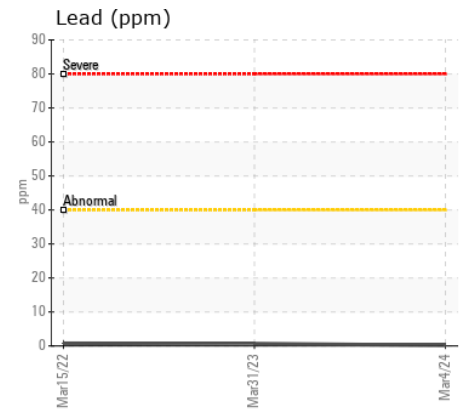
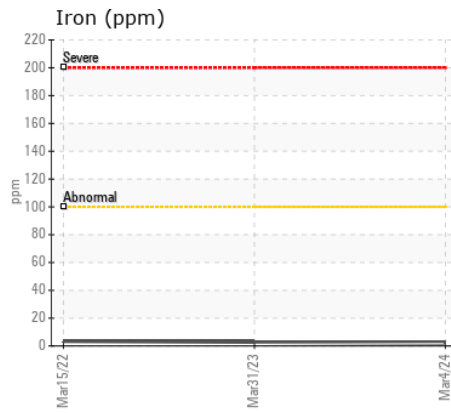
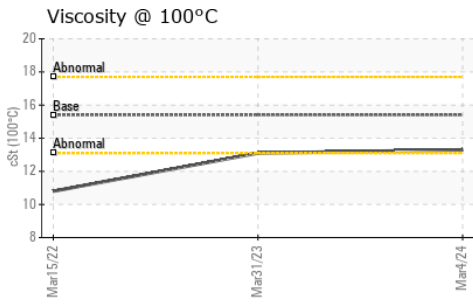
There is no indication of any contamination in the oil.

|                  |          |               |      |                |       |       |
|------------------|----------|---------------|------|----------------|-------|-------|
| Silicon          | ppm      | ASTM D5185(m) | >25  | <b>5</b>       | 16    | 5     |
| Potassium        | ppm      | ASTM D5185(m) | >20  | <b>&lt;1</b>   | 3     | 3     |
| Fuel             |          | WC Method     | >5   | <b>&lt;1.0</b> | ▲ 3.4 | ▲ 7.7 |
| Water            |          | WC Method     | >0.2 | <b>NEG</b>     | NEG   | NEG   |
| Glycol           |          | WC Method     |      | <b>NEG</b>     | NEG   | NEG   |
| Soot %           | %        | ASTM D7844*   | >3   | <b>0</b>       | 0     | 0     |
| Nitration        | Abs/cm   | ASTM D7624*   | >20  | <b>5.7</b>     | 7.9   | 6.4   |
| Sulfation        | Abs/.1mm | ASTM D7415*   | >30  | <b>17.8</b>    | 21.2  | 20.9  |
| 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) | >192 | <b>1</b>    | 4    | 5      |
| Boron        | ppm      | ASTM D5185(m) |      | <b>25</b>   | 73   | 73     |
| Barium       | ppm      | ASTM D5185(m) |      | <b>0</b>    | 0    | 0      |
| Molybdenum   | ppm      | ASTM D5185(m) |      | <b>52</b>   | 73   | 34     |
| Manganese    | ppm      | ASTM D5185(m) |      | <b>0</b>    | <1   | <1     |
| Magnesium    | ppm      | ASTM D5185(m) |      | <b>658</b>  | 136  | 511    |
| Calcium      | ppm      | ASTM D5185(m) | 3780 | <b>1326</b> | 2098 | 1458   |
| Phosphorus   | ppm      | ASTM D5185(m) | 1370 | <b>996</b>  | 1047 | 897    |
| Zinc         | ppm      | ASTM D5185(m) | 1500 | <b>1108</b> | 1114 | 1003   |
| Sulfur       | ppm      | ASTM D5185(m) | 3800 | <b>2906</b> | 3116 | 2578   |
| Oxidation    | Abs/.1mm | ASTM D7414*   | >25  | <b>13.7</b> | 15.4 | 17.3   |
| Visc @ 100°C | cSt      | ASTM D7279(m) | 15.4 | <b>13.3</b> | 13.1 | ▲ 10.8 |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005810 **Received** : 07 Mar 2024  
**Lab Number** : 02620458 **Tested** : 07 Mar 2024  
**Unique Number** : 5737568 **Diagnosed** : 07 Mar 2024 - Wes Davis  
**Test Package** : MOB 1

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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.