



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

Machine Id  
**1398 HWY 7A BETHANY BELL CANADA MOB 64-3502151**  
 Component  
**Left Diesel Engine**  
 Fluid  
**ESSO XD-3 EXTRA 15W40 (10 LTR)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>PN0006108</b>   | PN0003842   | PN0002241   |
| Sample Date    |     | Client Info |           | <b>22 Apr 2024</b> | 13 Jul 2022 | 16 Mar 2021 |
| Machine Age    | hrs | Client Info |           | <b>572</b>         | 453         | 317         |
| Oil Age        | hrs | Client Info |           | <b>0</b>           | 0           | 18          |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 18          |
| Oil Changed    |     | Client Info |           | <b>N/A</b>         | Changed     | Changed     |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | Changed     | Changed     |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

**WEAR**

Metal levels are typical for a new component breaking in.

|              |        |               |      |              |     |     |
|--------------|--------|---------------|------|--------------|-----|-----|
| Iron         | ppm    | ASTM D5185(m) | >250 | <b>9</b>     | 6   | 2   |
| Chromium     | ppm    | ASTM D5185(m) | >10  | <b>0</b>     | 0   | 0   |
| Nickel       | ppm    | ASTM D5185(m) | >5   | <b>0</b>     | 0   | 0   |
| Titanium     | ppm    | ASTM D5185(m) |      | <b>0</b>     | <1  | <1  |
| Silver       | ppm    | ASTM D5185(m) | >3   | <b>0</b>     | 0   | 0   |
| Aluminum     | ppm    | ASTM D5185(m) | >35  | <b>1</b>     | 2   | 2   |
| Lead         | ppm    | ASTM D5185(m) | >100 | <b>&lt;1</b> | 1   | <1  |
| Copper       | ppm    | ASTM D5185(m) | >60  | <b>10</b>    | 9   | 1   |
| Tin          | ppm    | ASTM D5185(m) | >5   | <b>&lt;1</b> | <1  | 0   |
| Vanadium     | ppm    | ASTM D5185(m) |      | <b>0</b>     | 0   | 0   |
| White Metal  | scalar | Visual*       | NONE | <b>NONE</b>  | --- | --- |
| Yellow Metal | scalar | Visual*       | NONE | <b>NONE</b>  | --- | --- |

**CONTAMINATION**

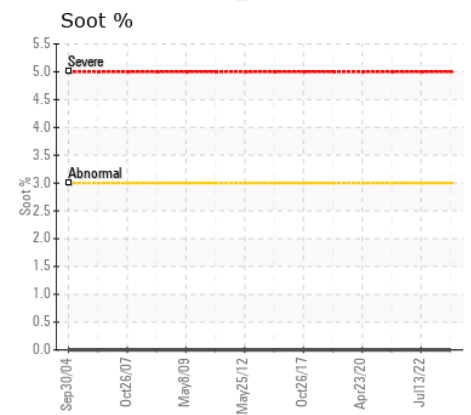
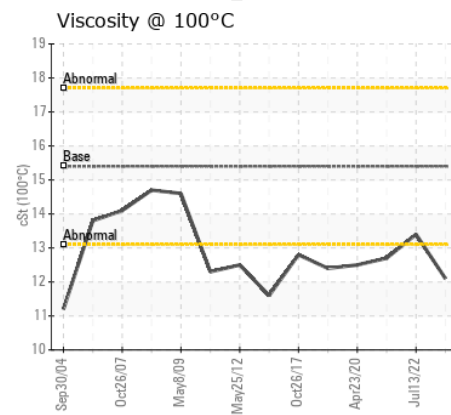
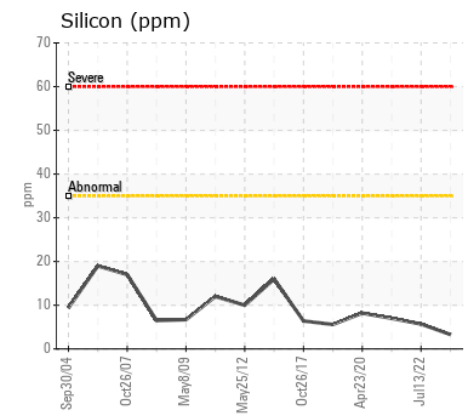
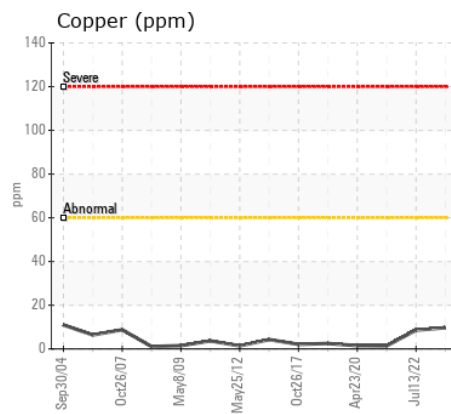
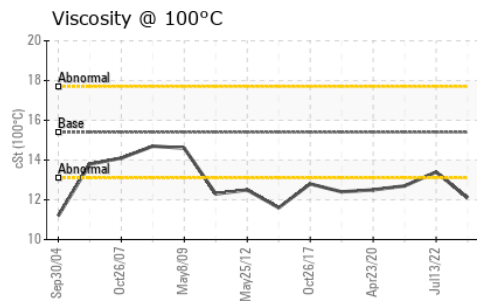
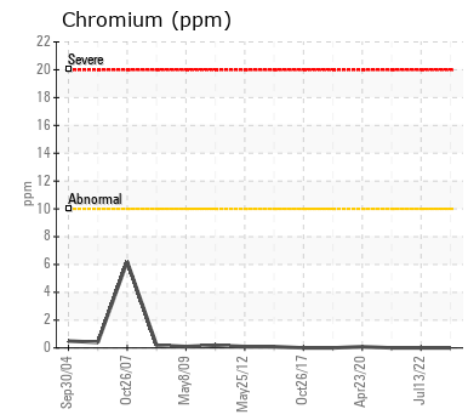
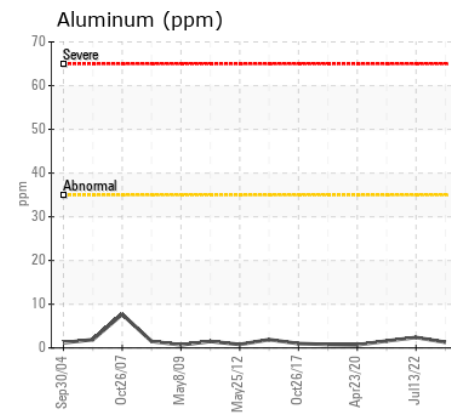
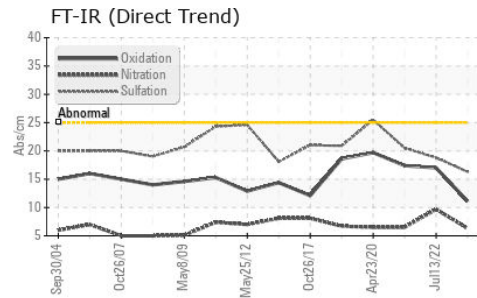
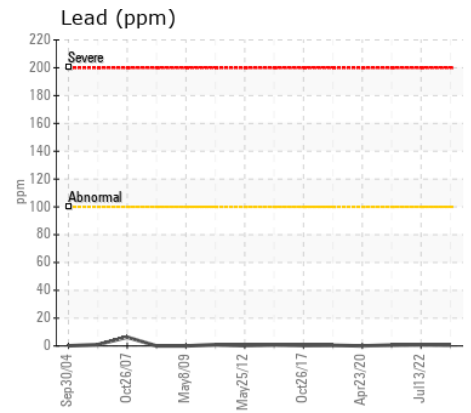
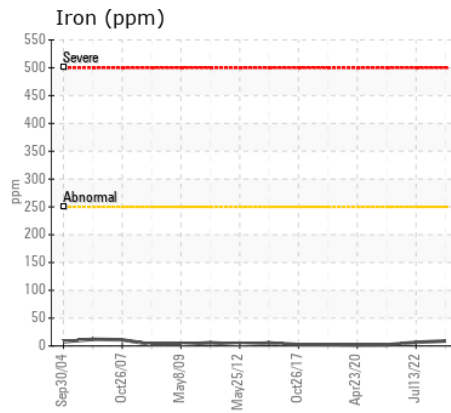
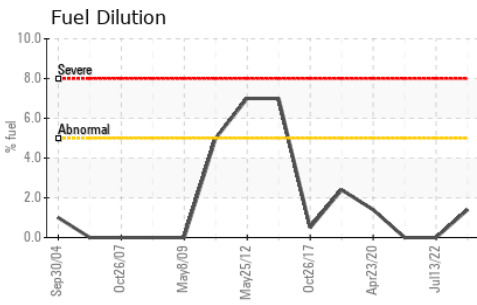
Light fuel dilution occurring. No other contaminants were detected in the oil.

|                  |          |               |       |              |       |      |
|------------------|----------|---------------|-------|--------------|-------|------|
| Silicon          | ppm      | ASTM D5185(m) | >35   | <b>3</b>     | 6     | 7    |
| Potassium        | ppm      | ASTM D5185(m) | >20   | <b>1</b>     | <1    | 0    |
| Fuel             | %        | ASTM D7593*   | >5    | <b>1.4</b>   | <1.0  | <1.0 |
| 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>6.3</b>   | 9.7   | 6.5  |
| Sulfation        | Abs/.1mm | ASTM D7415*   | >30   | <b>16.3</b>  | 18.8  | 20.5 |
| Silt             | scalar   | Visual*       | NONE  | <b>NONE</b>  | ---   | ---  |
| Debris           | scalar   | Visual*       | NONE  | <b>NONE</b>  | ---   | ---  |
| Sand/Dirt        | scalar   | Visual*       | NONE  | <b>NONE</b>  | ---   | ---  |
| Appearance       | scalar   | Visual*       | NORML | <b>NORML</b> | ---   | ---  |
| Odor             | scalar   | Visual*       | NORML | <b>NORML</b> | 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) | >192 | <b>1</b>     | 3    | 4    |
| Boron        | ppm      | ASTM D5185(m) |      | <b>22</b>    | 55   | 62   |
| Barium       | ppm      | ASTM D5185(m) |      | <b>&lt;1</b> | 0    | 0    |
| Molybdenum   | ppm      | ASTM D5185(m) |      | <b>18</b>    | 80   | 50   |
| Manganese    | ppm      | ASTM D5185(m) |      | <b>&lt;1</b> | <1   | <1   |
| Magnesium    | ppm      | ASTM D5185(m) |      | <b>108</b>   | 74   | 300  |
| Calcium      | ppm      | ASTM D5185(m) | 3780 | <b>2319</b>  | 2244 | 1729 |
| Phosphorus   | ppm      | ASTM D5185(m) | 1370 | <b>986</b>   | 947  | 786  |
| Zinc         | ppm      | ASTM D5185(m) | 1500 | <b>1154</b>  | 1148 | 964  |
| Sulfur       | ppm      | ASTM D5185(m) | 3800 | <b>2651</b>  | 3079 | 2571 |
| Oxidation    | Abs/.1mm | ASTM D7414*   | >25  | <b>11.1</b>  | 17.0 | 17.4 |
| Visc @ 100°C | cSt      | ASTM D7279(m) | 15.4 | <b>12.1</b>  | 13.4 | 12.7 |



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006108  
**Lab Number** : 02631479  
**Unique Number** : 5772632  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel, Visual )

**Received** : 26 Apr 2024  
**Tested** : 29 Apr 2024  
**Diagnosed** : 29 Apr 2024 - Wes Davis

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.

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