



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

Machine Id  
**65 SYMPATICA CRES BRANTFORD, ELECTRICAL ROOM BROWN MANAGEMENT SERVICES 577577T**  
 Component  
**Right Diesel Engine**  
 Fluid  
**ESSO XD-3 EXTRA 15W40 (10 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>PN0006327</b>   | PN0005255   | PN0004007   |
| Sample Date    |     | Client Info |           | <b>30 May 2024</b> | 29 Sep 2023 | 09 Sep 2022 |
| Machine Age    | hrs | Client Info |           | <b>137</b>         | 137         | 134         |
| Oil Age        | hrs | Client Info |           | <b>1</b>           | 2           | 0           |
| Filter Age     | hrs | Client Info |           | <b>1</b>           | 2           | 0           |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | Changed     | Changed     |
| Filter Changed |     | Client Info |           | <b>Changed</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) | >51  | <b>2</b>     | 3   | 3   |
| Chromium     | ppm    | ASTM D5185(m) | >11  | <b>0</b>     | 0   | 0   |
| Nickel       | ppm    | ASTM D5185(m) | >5   | <b>0</b>     | 0   | 0   |
| Titanium     | ppm    | ASTM D5185(m) |      | <b>0</b>     | 0   | 0   |
| Silver       | ppm    | ASTM D5185(m) | >3   | <b>0</b>     | <1  | 0   |
| Aluminum     | ppm    | ASTM D5185(m) | >31  | <b>&lt;1</b> | <1  | 1   |
| Lead         | ppm    | ASTM D5185(m) | >26  | <b>&lt;1</b> | 2   | 3   |
| Copper       | ppm    | ASTM D5185(m) | >26  | <b>&lt;1</b> | 1   | 1   |
| Tin          | ppm    | ASTM D5185(m) | >4   | <b>&lt;1</b> | <1  | <1  |
| 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**

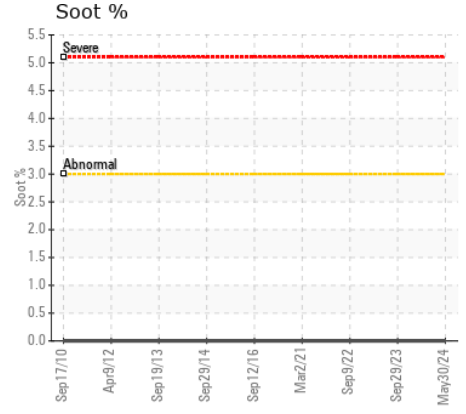
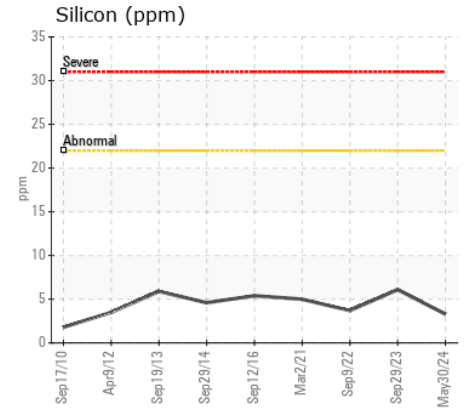
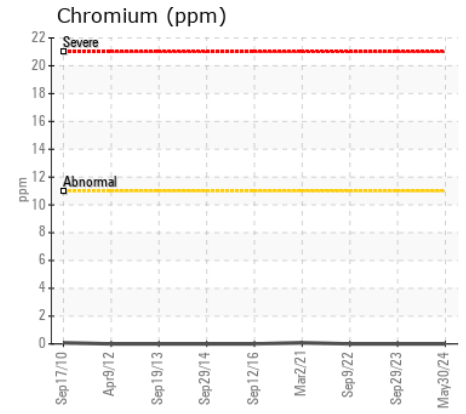
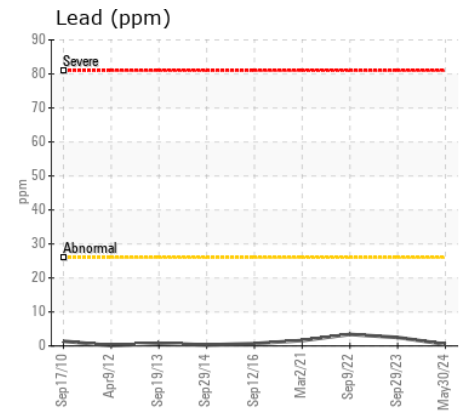
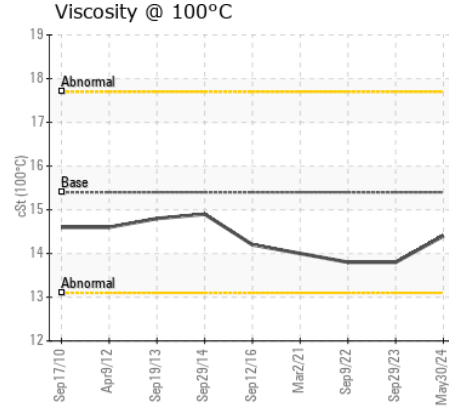
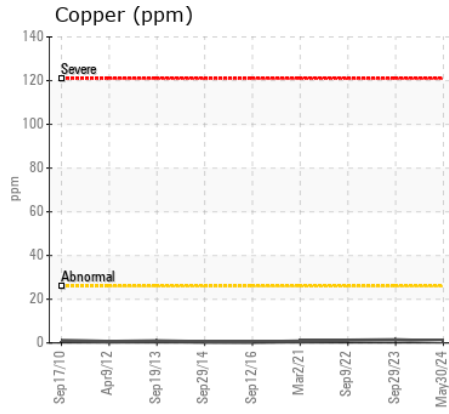
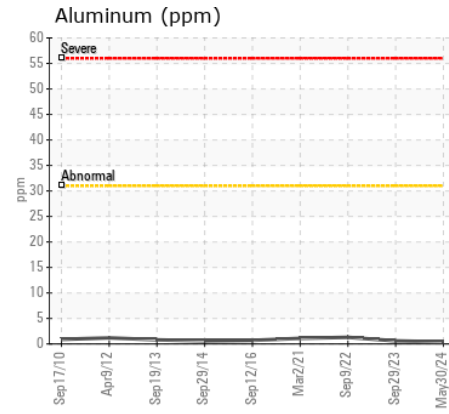
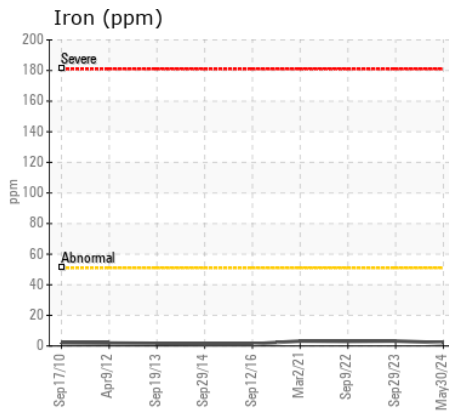
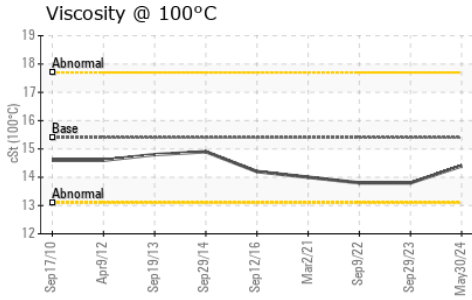
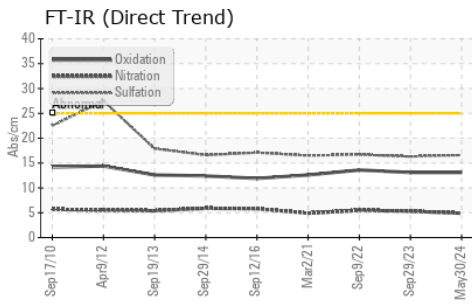
There is no indication of any contamination in the oil.

|                  |          |               |       |                |       |       |
|------------------|----------|---------------|-------|----------------|-------|-------|
| Silicon          | ppm      | ASTM D5185(m) | >22   | <b>3</b>       | 6     | 4     |
| Potassium        | ppm      | ASTM D5185(m) | >20   | <b>&lt;1</b>   | 0     | <1    |
| Fuel             |          | WC Method     | >2.1  | <b>&lt;1.0</b> | <1.0  | <1.0  |
| Water            |          | WC Method     | >0.21 | <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>4.9</b>     | 5.3   | 5.5   |
| Sulfation        | Abs/.1mm | ASTM D7415*   | >30   | <b>16.6</b>    | 16.3  | 16.7  |
| Silt             | scalar   | Visual*       | NONE  | <b>NONE</b>    | ---   | ---   |
| Debris           | scalar   | Visual*       | NONE  | <b>NONE</b>    | ---   | ---   |
| Sand/Dirt        | scalar   | Visual*       | NONE  | <b>VLITE</b>   | ---   | ---   |
| Appearance       | scalar   | Visual*       | NORML | <b>NORML</b>   | ---   | ---   |
| Odor             | scalar   | Visual*       | NORML | <b>NORML</b>   | NORML | NORML |
| Emulsified Water | scalar   | Visual*       | >0.21 | <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>3</b>    | 4    | 5    |
| Boron        | ppm      | ASTM D5185(m) |      | <b>9</b>    | 15   | 15   |
| Barium       | ppm      | ASTM D5185(m) |      | <b>0</b>    | <1   | 0    |
| Molybdenum   | ppm      | ASTM D5185(m) |      | <b>56</b>   | 54   | 53   |
| Manganese    | ppm      | ASTM D5185(m) |      | <b>0</b>    | 0    | <1   |
| Magnesium    | ppm      | ASTM D5185(m) |      | <b>883</b>  | 815  | 812  |
| Calcium      | ppm      | ASTM D5185(m) | 3780 | <b>1148</b> | 1237 | 1262 |
| Phosphorus   | ppm      | ASTM D5185(m) | 1370 | <b>946</b>  | 934  | 986  |
| Zinc         | ppm      | ASTM D5185(m) | 1500 | <b>1098</b> | 1070 | 1051 |
| Sulfur       | ppm      | ASTM D5185(m) | 3800 | <b>2554</b> | 2525 | 2617 |
| Oxidation    | Abs/.1mm | ASTM D7414*   | >25  | <b>13.1</b> | 13.1 | 13.6 |
| Visc @ 100°C | cSt      | ASTM D7279(m) | 15.4 | <b>14.4</b> | 13.8 | 13.8 |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006327  
**Lab Number** : 02640198  
**Unique Number** : 5789360  
**Test Package** : MOB 1 ( Additional Tests: Visual )

**Received** : 06 Jun 2024  
**Tested** : 06 Jun 2024  
**Diagnosed** : 06 Jun 2024 - Wes Davis

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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.