



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

Machine Id
125 EGLINTON AVE W MISSISSAUGA CITY OF MISSISSAUGA 57L0012358

Component
Rear Diesel Engine

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

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | PN0005816 | PN0004440 | PN0001453 |
| Sample Date | | Client Info | | 03 Jan 2024 | 11 Jan 2023 | 03 Mar 2022 |
| Machine Age | hrs | Client Info | | 159 | 116 | 83 |
| Oil Age | hrs | Client Info | | 43 | 33 | 0 |
| Filter Age | hrs | Client Info | | 43 | 33 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

Metal levels are typical for a new component breaking in.

| | | | | | | |
|----------|-----|---------------|------|--------------|----|----|
| Iron | ppm | ASTM D5185(m) | >100 | 13 | 20 | 34 |
| Chromium | ppm | ASTM D5185(m) | >20 | 0 | 0 | <1 |
| Nickel | ppm | ASTM D5185(m) | >4 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | <1 | 0 |
| Silver | ppm | ASTM D5185(m) | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >20 | 3 | 5 | 6 |
| Lead | ppm | ASTM D5185(m) | >40 | 4 | 5 | 6 |
| Copper | ppm | ASTM D5185(m) | >330 | 2 | 4 | 8 |
| Tin | ppm | ASTM D5185(m) | >15 | <1 | <1 | 1 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

CONTAMINATION

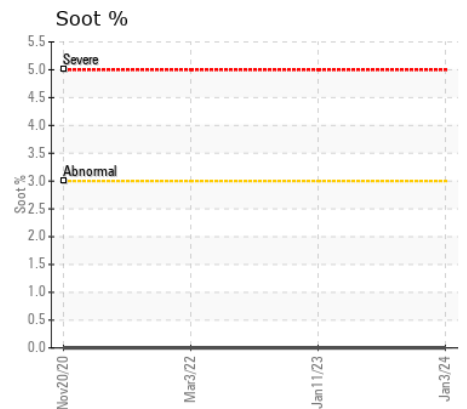
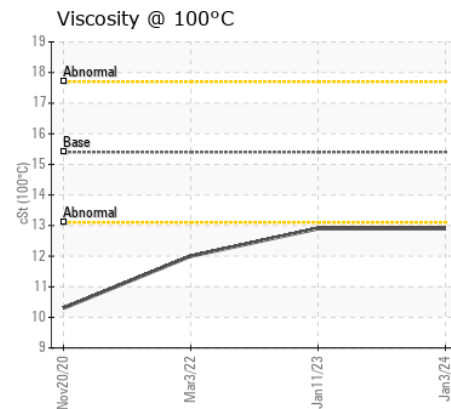
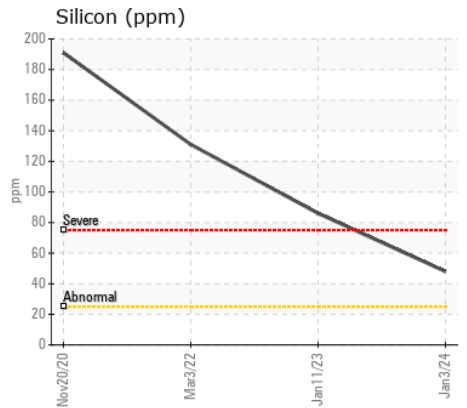
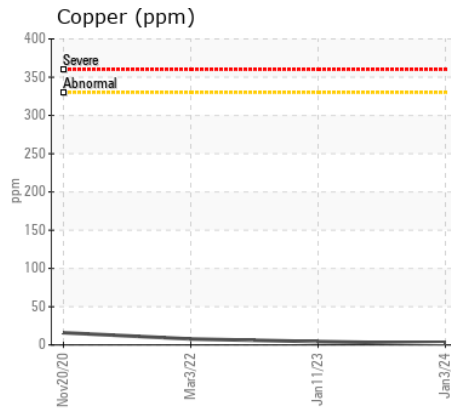
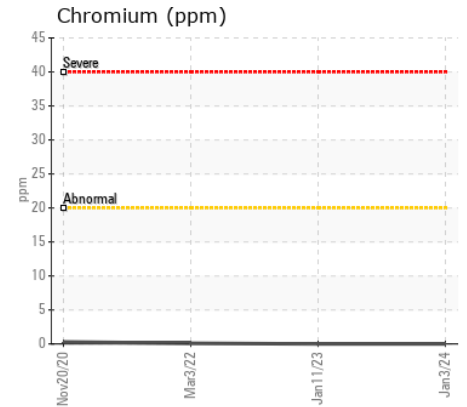
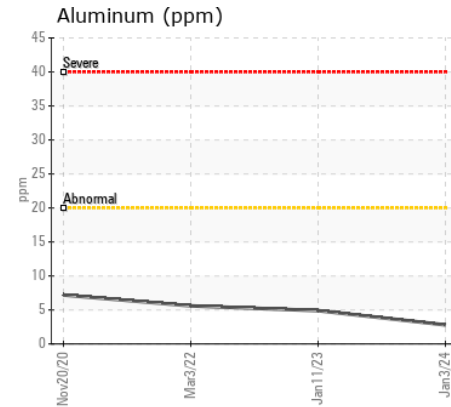
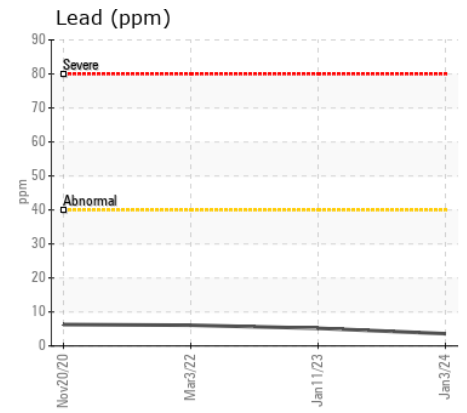
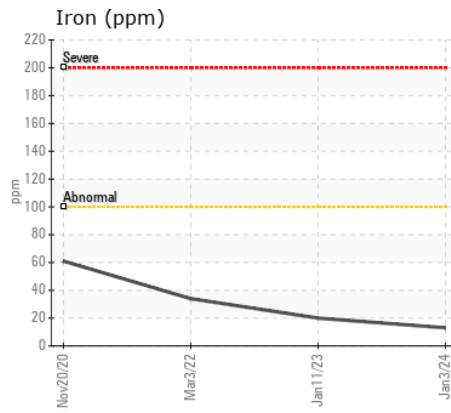
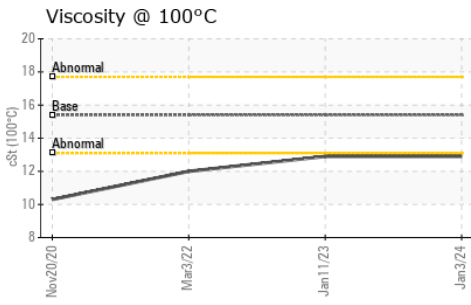
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|------|----------------|------|------|
| Silicon | ppm | ASTM D5185(m) | >25 | 48 | 86 | 131 |
| Potassium | ppm | ASTM D5185(m) | >20 | 1 | 2 | 2 |
| Fuel | | WC Method | >5 | <1.0 | 0.6 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | 0.0 |
| Soot % | % | ASTM D7844* | >3 | 0 | 0 | 0 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 7.7 | 8.8 | 8.3 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 18.5 | 20.2 | 20.1 |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | NEG | .2% |

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

| | | | | | | |
|--------------|----------|---------------|------|--------------|------|------|
| Sodium | ppm | ASTM D5185(m) | >192 | 3 | 6 | 9 |
| Boron | ppm | ASTM D5185(m) | | 35 | 55 | 54 |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Molybdenum | ppm | ASTM D5185(m) | | 58 | 94 | 98 |
| Manganese | ppm | ASTM D5185(m) | | <1 | 3 | 6 |
| Magnesium | ppm | ASTM D5185(m) | | 432 | 107 | 206 |
| Calcium | ppm | ASTM D5185(m) | 3780 | 1651 | 2132 | 1798 |
| Phosphorus | ppm | ASTM D5185(m) | 1370 | 983 | 1029 | 907 |
| Zinc | ppm | ASTM D5185(m) | 1500 | 1104 | 1114 | 1040 |
| Sulfur | ppm | ASTM D5185(m) | 3800 | 3012 | 2991 | 2607 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 14.5 | 15.7 | 15.3 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 15.4 | 12.9 | 12.9 | 12.0 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005816 **Received** : 07 Mar 2024
Lab Number : 02620457 **Tested** : 07 Mar 2024
Unique Number : 5737567 **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.