POWER GENERATION PRODUCTS

# OIL ANALYSIS REPORT

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

Area
**[85442]**
Machine Id
## 9 CHANNEL NINE CRT MISSISSAUGA BELL CANADA BELL CANADA
Component
## Right Diesel Engine
Fluid
## ESSO XD-3 EXTRA 15W40 (400 LTR)

## RECOMMENDATION

Resample at the next service interval to monitor. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MOB 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid. this testkit includes BN to determine the suitability of the oil for continued use.

## WEAR

Component wear rates appear to be normal (unconfirmed).

## CONTAMINATION

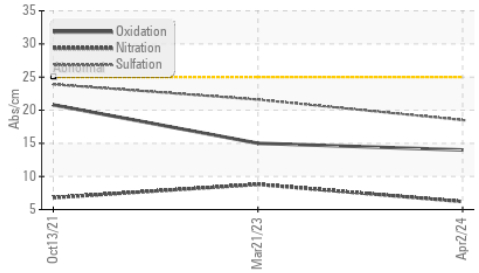
There is no indication of any contamination in the oil.

## FLUID CONDITION

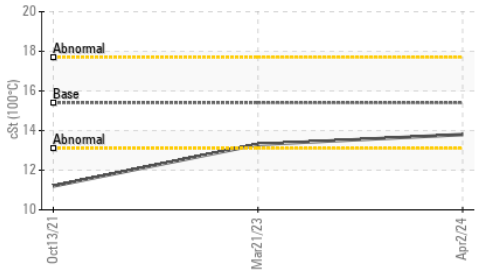
The condition of the oil is acceptable for the time in service (unconfirmed).

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | PN0005714 | PN0004613 | PN0002890 |
| Sample Date | | Client Info | | 02 Apr 2024 | 21 Mar 2023 | 13 Oct 2021 |
| Machine Age | hrs | Client Info | | 2406 | 2244 | 1601 |
| Oil Age | hrs | Client Info | | 162 | 318 | 505 |
| Filter Age | hrs | Client Info | | 162 | 318 | 505 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | ABNORMAL |
| Iron | ppm | ASTM D5185(m) | >100 | 3 | 4 | 5 |
| Chromium | ppm | ASTM D5185(m) | >20 | 0 | 0 | <1 |
| Nickel | ppm | ASTM D5185(m) | >2 | 0 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | >2 | 0 | <1 | 0 |
| Silver | ppm | ASTM D5185(m) | >2 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185(m) | >25 | 1 | 2 | 1 |
| Lead | ppm | ASTM D5185(m) | >40 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185(m) | >330 | 1 | 1 | 2 |
| Tin | ppm | ASTM D5185(m) | >15 | 0 | <1 | <1 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| White Metal | scalar | Visual* | NONE | NONE | --- | --- |
| Yellow Metal | scalar | Visual* | NONE | NONE | --- | --- |
| Silicon | ppm | ASTM D5185(m) | >25 | <1 | 3 | 5 |
| Potassium | ppm | ASTM D5185(m) | >20 | 0 | 0 | <1 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | 0.5 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | ASTM D7844* | >3 | 0 | 0 | 0 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 6.2 | 8.8 | 6.8 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 18.5 | 21.6 | 23.9 |
| Silt | scalar | Visual* | NONE | NONE | --- | --- |
| Debris | scalar | Visual* | NONE | VLITE | --- | --- |
| Sand/Dirt | scalar | Visual* | NONE | NONE | --- | --- |
| Appearance | scalar | Visual* | NORML | NORML | --- | --- |
| Odor | scalar | Visual* | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | NEG | NEG |
| Sodium | ppm | ASTM D5185(m) | >192 | 1 | 1 | 2 |
| Boron | ppm | ASTM D5185(m) | | 11 | 50 | 49 |
| Barium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | | 51 | 22 | 41 |
| Manganese | ppm | ASTM D5185(m) | | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185(m) | | 793 | 124 | 505 |
| Calcium | ppm | ASTM D5185(m) | 3780 | 1256 | 2177 | 1680 |
| Phosphorus | ppm | ASTM D5185(m) | 1370 | 1019 | 1111 | 969 |
| Zinc | ppm | ASTM D5185(m) | 1500 | 1183 | 1195 | 1095 |
| Sulfur | ppm | ASTM D5185(m) | 3800 | 2775 | 3256 | 2538 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 14.0 | 15.0 | 20.8 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 15.4 | 13.8 | 13.3 | ▲ 11.2 |

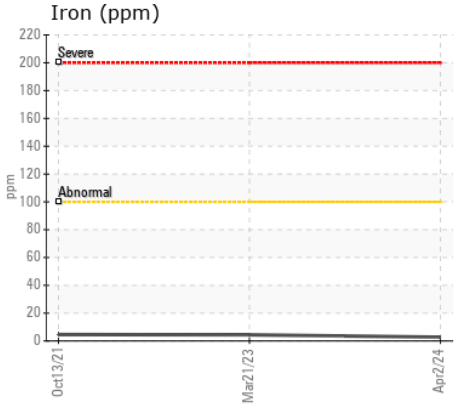
FT-IR (Direct Trend)



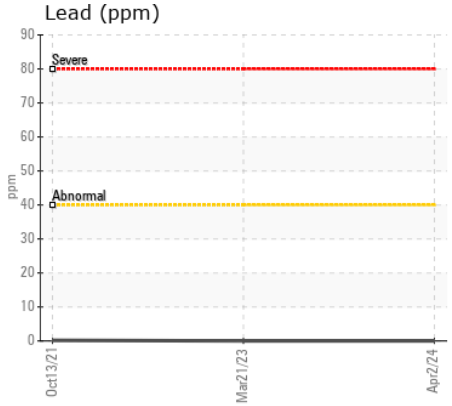

Viscosity @ 100°C



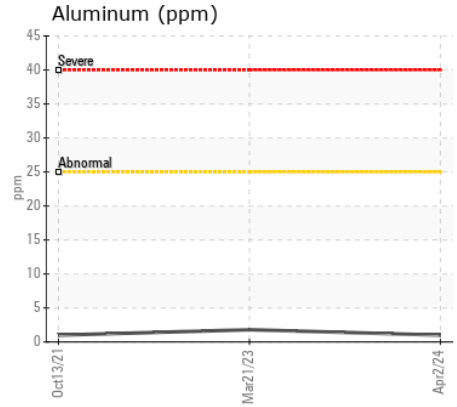

Iron (ppm)



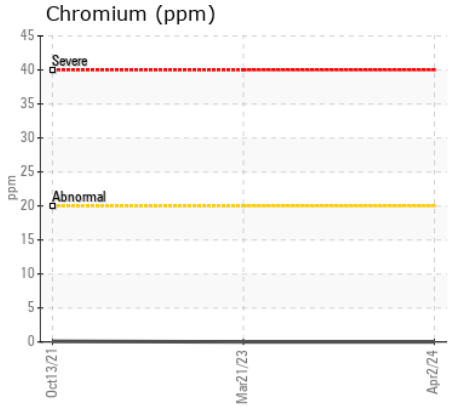

Lead (ppm)



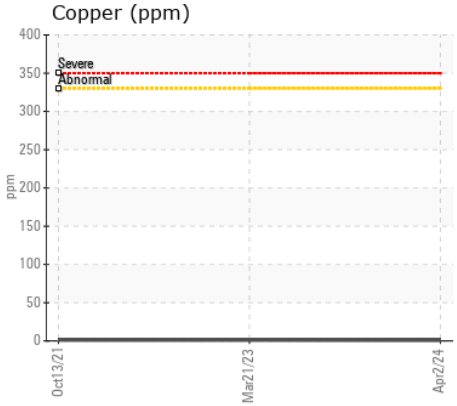

Aluminum (ppm)



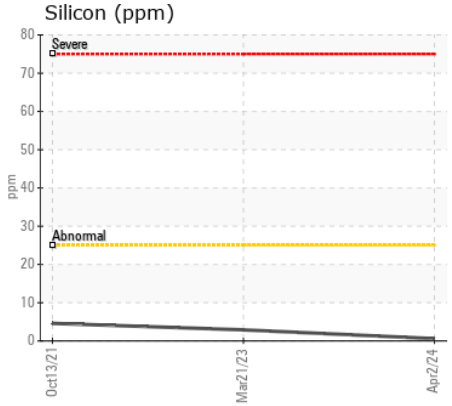

Chromium (ppm)



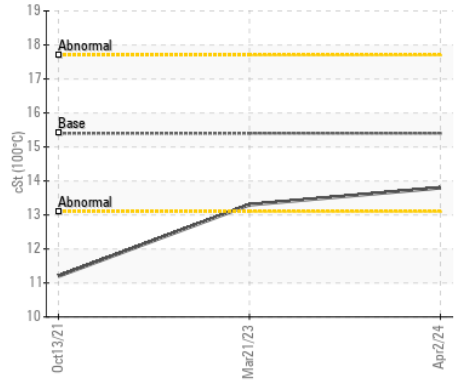

Copper (ppm)



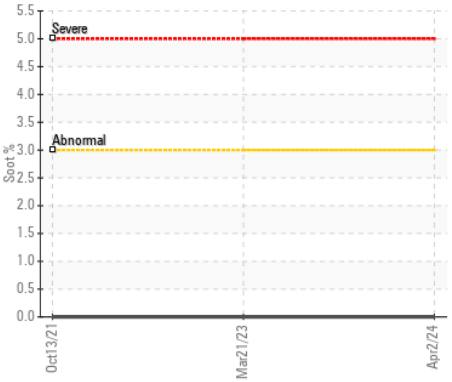

Silicon (ppm)




Viscosity @ 100°C




Soot %




ISO 17025:2017 Accredited Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
**Sample No.** : PN0005714 **Received** : 09 Apr 2024
**Lab Number** : 02627566 **Tested** : 09 Apr 2024
**Unique Number** : 5760698 **Diagnosed** : 09 Apr 2024 - Wes Davis
**Test Package** : MOB 1 ( Additional Tests: Visual )

*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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