



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

Machine Id
6 DUFFERIN ST. COOKSTON BELL CANADA U040142W

Component
Left 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 | | PN0005791 | PN0004384 | PN0003295 |
| Sample Date | | Client Info | | 28 Feb 2024 | 17 Jan 2023 | 25 Feb 2022 |
| Machine Age | hrs | Client Info | | 246 | 217 | 193 |
| Oil Age | hrs | Client Info | | 30 | 24 | 0 |
| Filter Age | hrs | Client Info | | 30 | 24 | 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) | >250 | 1 | 4 | 3 |
| Chromium | ppm | ASTM D5185(m) | >10 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | >5 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185(m) | | 0 | <1 | 0 |
| Silver | ppm | ASTM D5185(m) | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >35 | 1 | 3 | 1 |
| Lead | ppm | ASTM D5185(m) | >100 | 0 | 1 | <1 |
| Copper | ppm | ASTM D5185(m) | >60 | <1 | 7 | 1 |
| Tin | ppm | ASTM D5185(m) | >5 | 0 | <1 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

CONTAMINATION

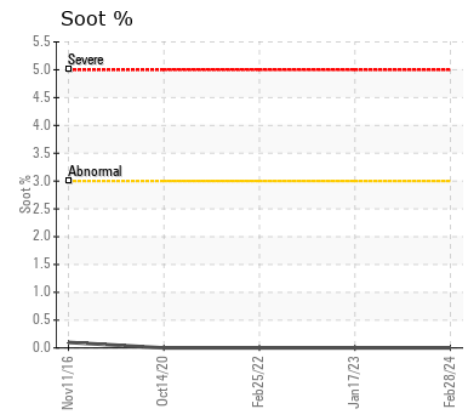
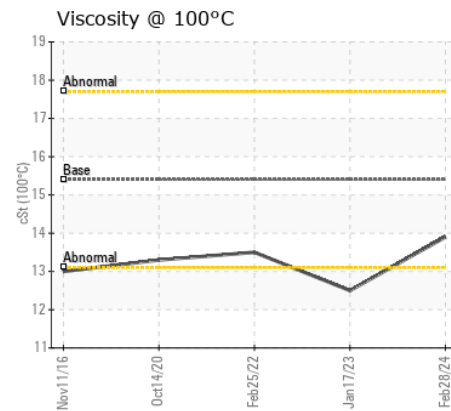
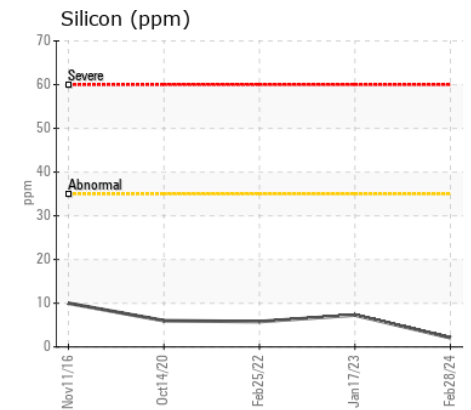
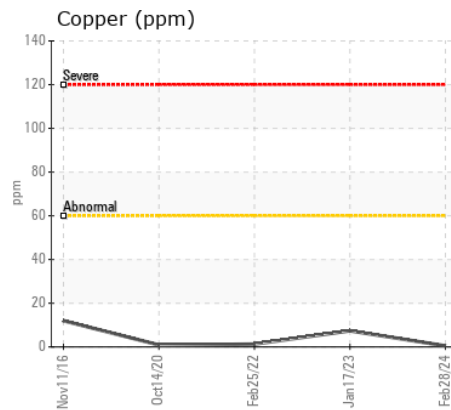
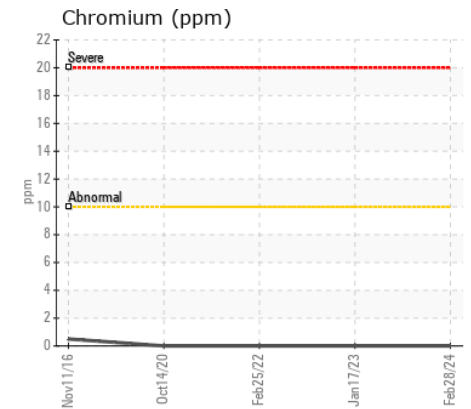
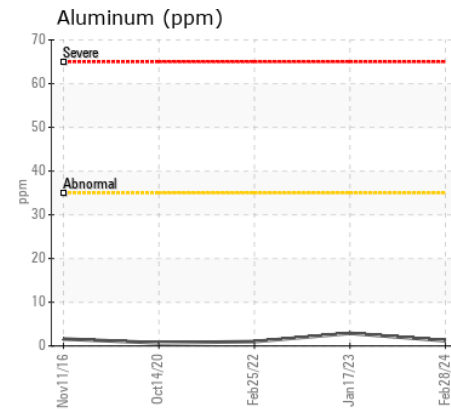
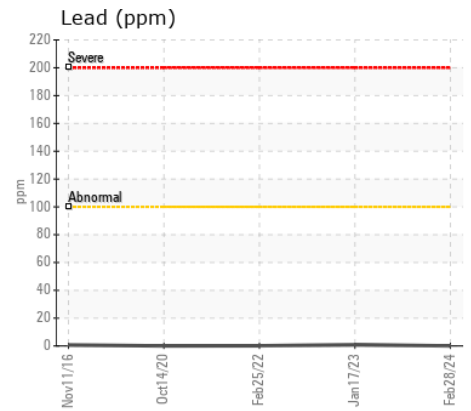
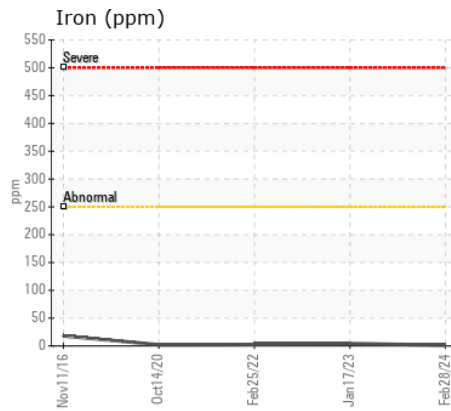
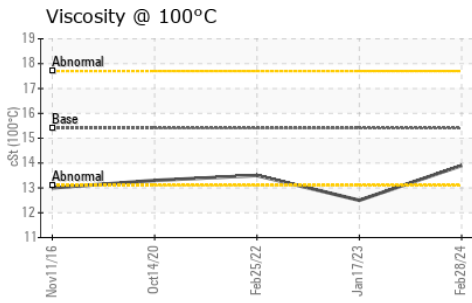
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|---------------|------|----------------|------|------|
| Silicon | ppm | ASTM D5185(m) | >35 | 2 | 7 | 6 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | 1 | 0 |
| Fuel | | WC Method | >5 | <1.0 | 1 | <1.0 |
| 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 | 6.1 | 8.9 | 3.2 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 17.3 | 17.4 | 14.9 |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | NEG | NEG |

FLUID CONDITION

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

| | | | | | | |
|--------------|----------|---------------|------|-------------|------|------|
| Sodium | ppm | ASTM D5185(m) | >192 | 2 | 6 | 2 |
| Boron | ppm | ASTM D5185(m) | | 38 | 91 | 60 |
| Barium | ppm | ASTM D5185(m) | | 0 | <1 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | | 42 | 82 | 41 |
| Manganese | ppm | ASTM D5185(m) | | 0 | 11 | <1 |
| Magnesium | ppm | ASTM D5185(m) | | 517 | 121 | 488 |
| Calcium | ppm | ASTM D5185(m) | 3780 | 1509 | 2076 | 1686 |
| Phosphorus | ppm | ASTM D5185(m) | 1370 | 969 | 1041 | 789 |
| Zinc | ppm | ASTM D5185(m) | 1500 | 1093 | 1129 | 878 |
| Sulfur | ppm | ASTM D5185(m) | 3800 | 2978 | 3263 | 2193 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 13.2 | 13.1 | 7.9 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 15.4 | 13.9 | 12.5 | 13.5 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005791 **Received** : 07 Mar 2024
Lab Number : 02620464 **Tested** : 07 Mar 2024
Unique Number : 5737574 **Diagnosed** : 07 Mar 2024 - Wes Davis
Test Package : MOB 1

POWER STATION INC.
 1050 JAYSON COURT
 MISSISSAUGA, ON
 CA L4W 2V5
 Contact: Ryan Udall
 rudall@pwrstn.com
 T: (905)565-1621
 F: (905)629-1499

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.