



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

Area

[85561]

Machine Id

100 KING ST W TORONTO BROOKFIELD PROPERTIES 72 FLOOR - UNIT 2

Component

Diesel Engine

Fluid

ESSO XD-3 EXTRA 15W40 (200 LTR)

**RECOMMENDATION**

No corrective action is recommended at this time. 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.

| Test           | UOM | Method      | Limit/Abn | Current       | History1 | History2 |
|----------------|-----|-------------|-----------|---------------|----------|----------|
| Sample Number  |     | Client Info |           | PN0005962     | ---      | ---      |
| Sample Date    |     | Client Info |           | 07 Apr 2024   | ---      | ---      |
| Machine Age    | hrs | Client Info |           | 95            | ---      | ---      |
| Oil Age        | hrs | Client Info |           | 17            | ---      | ---      |
| Filter Age     | hrs | Client Info |           | 17            | ---      | ---      |
| Oil Changed    |     | Client Info |           | Changed       | ---      | ---      |
| Filter Changed |     | Client Info |           | Changed       | ---      | ---      |
| Sample Status  |     |             |           | <b>NORMAL</b> | ---      | ---      |

**WEAR**

Metal levels are typical for a new component breaking in. Component wear rates appear to be normal (unconfirmed).

|          |     |               |      |    |     |     |
|----------|-----|---------------|------|----|-----|-----|
| Iron     | ppm | ASTM D5185(m) | >100 | 1  | --- | --- |
| Chromium | ppm | ASTM D5185(m) | >20  | 0  | --- | --- |
| Nickel   | ppm | ASTM D5185(m) | >2   | 0  | --- | --- |
| Titanium | ppm | ASTM D5185(m) | >2   | 0  | --- | --- |
| Silver   | ppm | ASTM D5185(m) | >2   | 0  | --- | --- |
| Aluminum | ppm | ASTM D5185(m) | >25  | <1 | --- | --- |
| Lead     | ppm | ASTM D5185(m) | >40  | 0  | --- | --- |
| Copper   | ppm | ASTM D5185(m) | >330 | 2  | --- | --- |
| Tin      | ppm | ASTM D5185(m) | >15  | 0  | --- | --- |
| Vanadium | ppm | ASTM D5185(m) |      | 0  | --- | --- |

**CONTAMINATION**

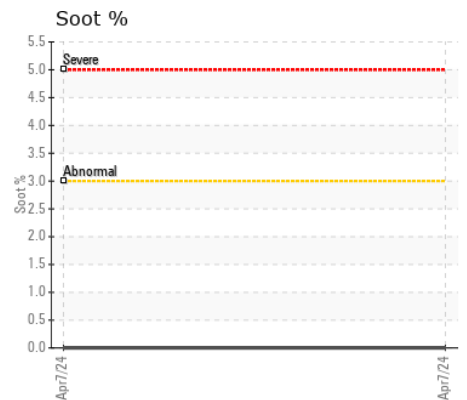
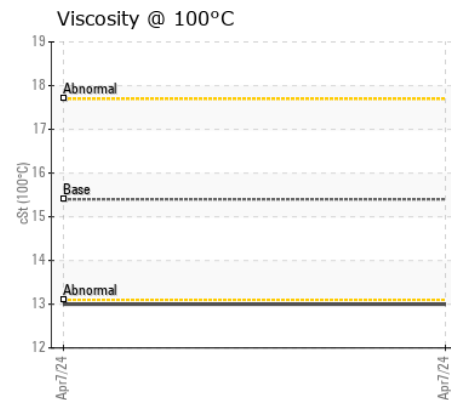
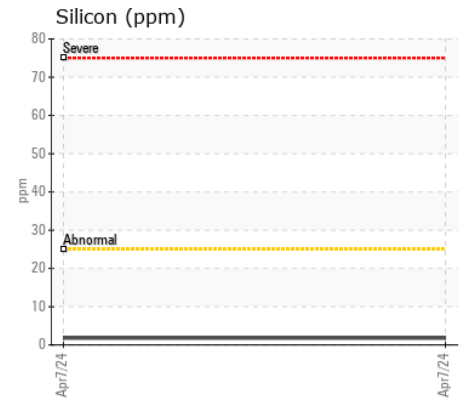
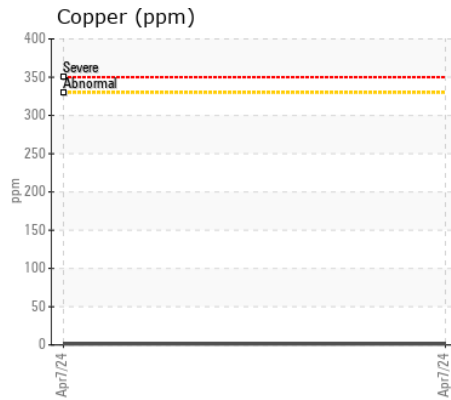
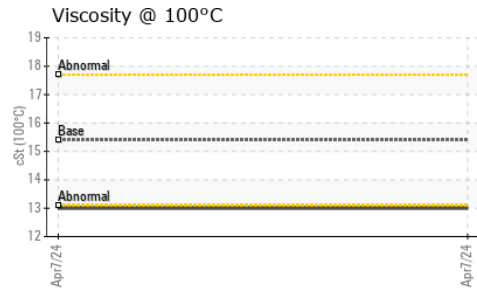
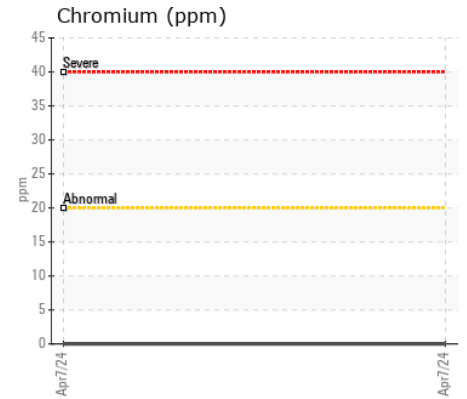
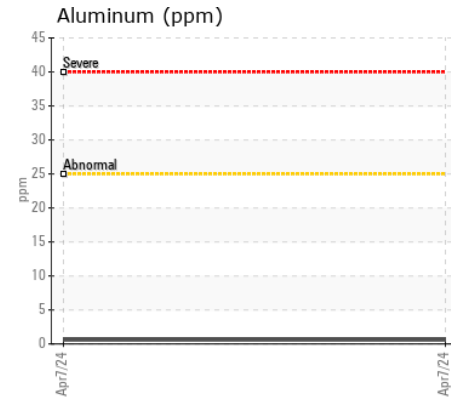
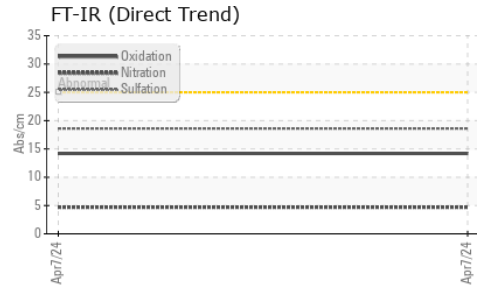
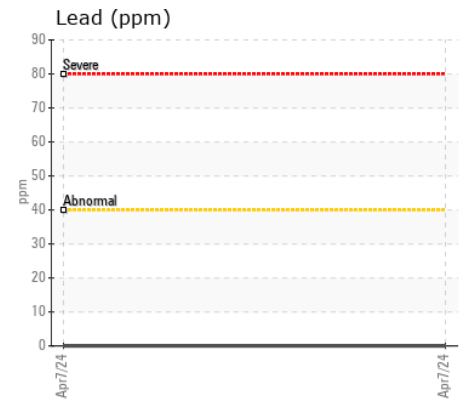
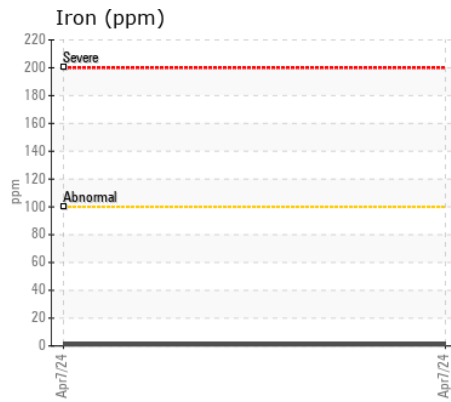
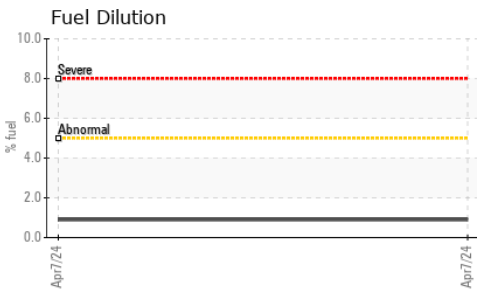
Fuel content negligible. There is no indication of any contamination in the oil.

|                  |          |               |      |      |     |     |
|------------------|----------|---------------|------|------|-----|-----|
| Silicon          | ppm      | ASTM D5185(m) | >25  | 2    | --- | --- |
| Potassium        | ppm      | ASTM D5185(m) | >20  | <1   | --- | --- |
| Fuel             | %        | ASTM D7593*   | >5   | 0.9  | --- | --- |
| Water            |          | WC Method     | >0.2 | NEG  | --- | --- |
| Glycol           |          | WC Method     |      | NEG  | --- | --- |
| Soot %           | %        | ASTM D7844*   | >3   | 0    | --- | --- |
| Nitration        | Abs/cm   | ASTM D7624*   | >20  | 4.7  | --- | --- |
| Sulfation        | Abs/.1mm | ASTM D7415*   | >30  | 18.6 | --- | --- |
| Emulsified Water | scalar   | Visual*       | >0.2 | NEG  | --- | --- |

**FLUID CONDITION**

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

|              |          |               |      |      |     |     |
|--------------|----------|---------------|------|------|-----|-----|
| Sodium       | ppm      | ASTM D5185(m) | >192 | 1    | --- | --- |
| Boron        | ppm      | ASTM D5185(m) |      | 26   | --- | --- |
| Barium       | ppm      | ASTM D5185(m) |      | 0    | --- | --- |
| Molybdenum   | ppm      | ASTM D5185(m) |      | 50   | --- | --- |
| Manganese    | ppm      | ASTM D5185(m) |      | 0    | --- | --- |
| Magnesium    | ppm      | ASTM D5185(m) |      | 785  | --- | --- |
| Calcium      | ppm      | ASTM D5185(m) | 3780 | 1240 | --- | --- |
| Phosphorus   | ppm      | ASTM D5185(m) | 1370 | 938  | --- | --- |
| Zinc         | ppm      | ASTM D5185(m) | 1500 | 1083 | --- | --- |
| Sulfur       | ppm      | ASTM D5185(m) | 3800 | 2563 | --- | --- |
| Oxidation    | Abs/.1mm | ASTM D7414*   | >25  | 14.2 | --- | --- |
| Visc @ 100°C | cSt      | ASTM D7279(m) | 15.4 | 13.0 | --- | --- |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005962 **Received** : 12 Apr 2024  
**Lab Number** : 02628417 **Tested** : 15 Apr 2024  
**Unique Number** : 5761549 **Diagnosed** : 15 Apr 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel )

**POWER STATION INC.**  
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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.