



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

Area

[85562]

Machine Id

100 KING ST W TORONTO BROOKFIELD PROPERTIES BROOKFIELD PROPERTIES

Component

Right Diesel Engine

Fluid

ESSO XD-3 EXTRA 15W40 (200 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006015	---	---
Sample Date		Client Info		07 Apr 2024	---	---
Machine Age	hrs	Client Info		590	---	---
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)	>65	<1	---	---
Chromium	ppm	ASTM D5185(m)	>3	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)	>6	<1	---	---
Lead	ppm	ASTM D5185(m)	>13	0	---	---
Copper	ppm	ASTM D5185(m)	>65	2	---	---
Tin	ppm	ASTM D5185(m)	>2	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

**CONTAMINATION**

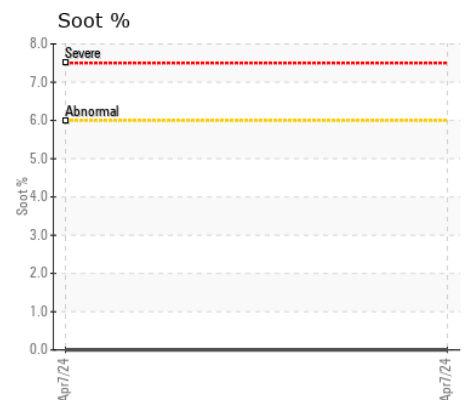
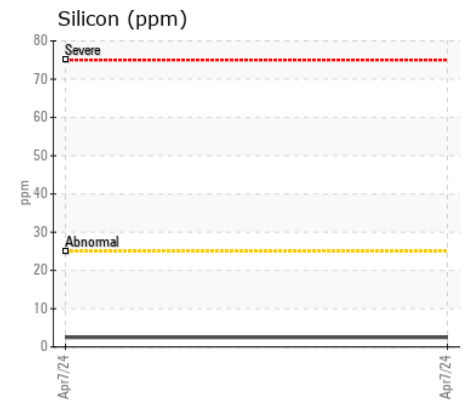
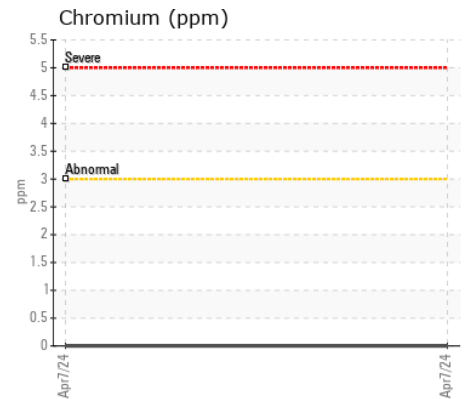
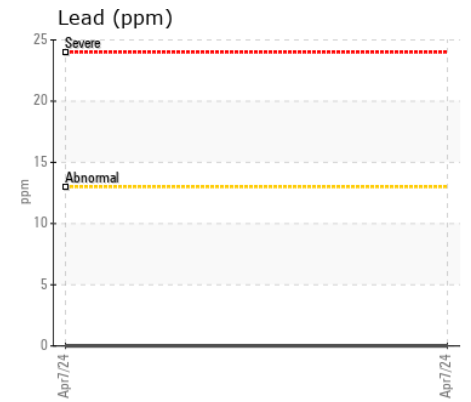
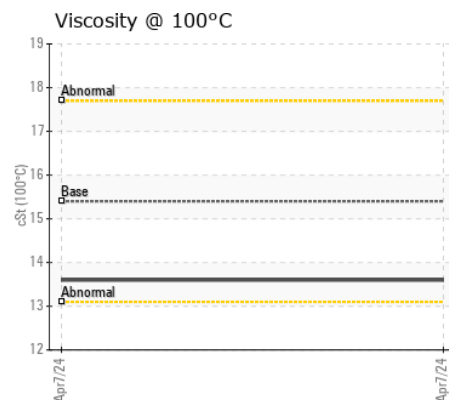
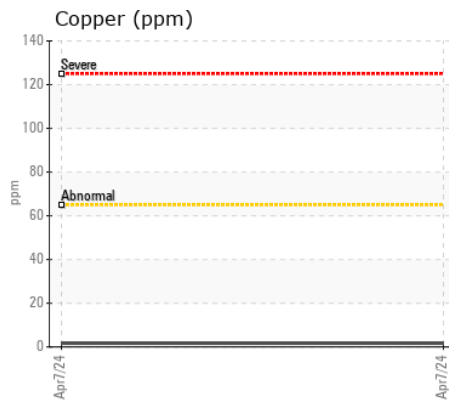
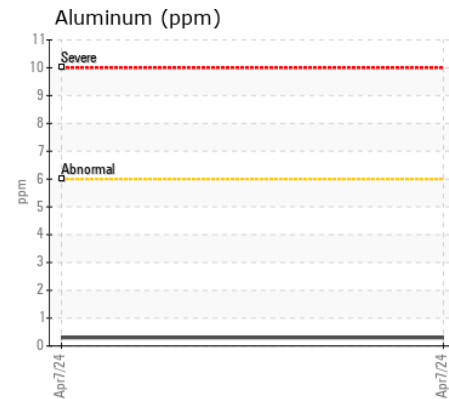
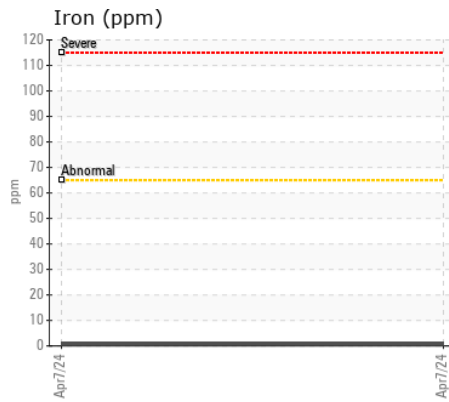
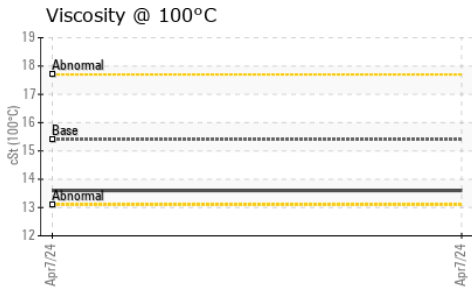
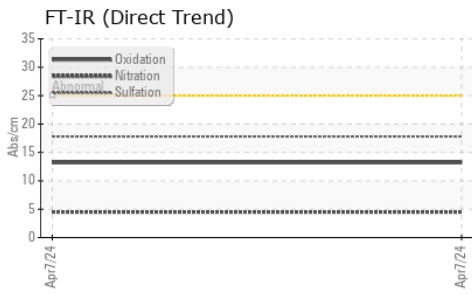
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---
Fuel		WC Method	>3.0	<1.0	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>6	0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	4.5	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.8	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)	>192	1	---	---
Boron	ppm	ASTM D5185(m)		13	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		54	---	---
Manganese	ppm	ASTM D5185(m)		0	---	---
Magnesium	ppm	ASTM D5185(m)		877	---	---
Calcium	ppm	ASTM D5185(m)	3780	1103	---	---
Phosphorus	ppm	ASTM D5185(m)	1370	959	---	---
Zinc	ppm	ASTM D5185(m)	1500	1119	---	---
Sulfur	ppm	ASTM D5185(m)	3800	2564	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.2	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.6	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006015  
**Lab Number** : 02628414  
**Unique Number** : 5761546  
**Test Package** : MOB 1

**Received** : 12 Apr 2024  
**Tested** : 12 Apr 2024  
**Diagnosed** : 12 Apr 2024 - Wes Davis

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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