



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
333 BAY ST TORONTO BROOKFIELD PROPERTIES 45 FIR EAST TOWER

Component
Rear Diesel Engine

Fluid
ESSO XD-3 EXTRA 15W40 (60 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005800	PN0004512	---
Sample Date		Client Info		04 Mar 2024	14 Jan 2023	---
Machine Age	hrs	Client Info		86	74	---
Oil Age	hrs	Client Info		15	0	---
Filter Age	hrs	Client Info		15	0	---
Oil Changed		Client Info		Changed	Not Chngd	---
Filter Changed		Client Info		Changed	Not Chngd	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

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

CONTAMINATION

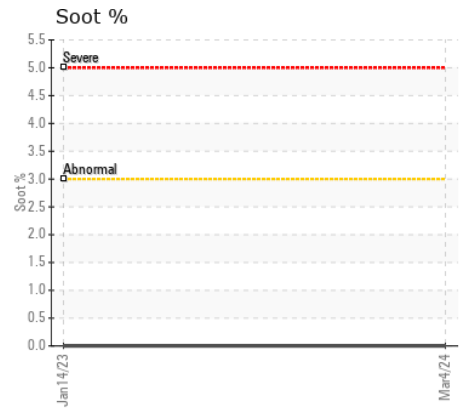
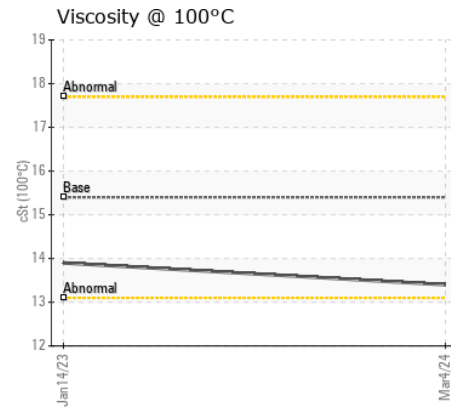
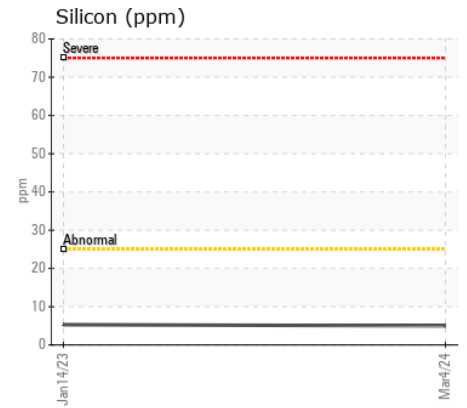
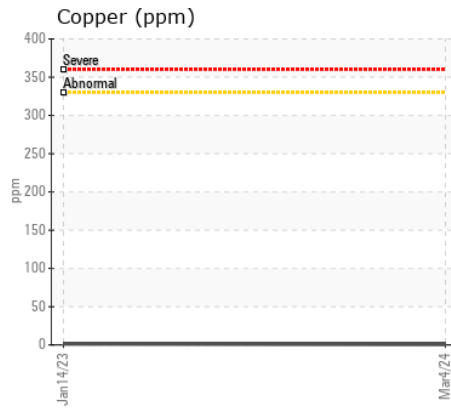
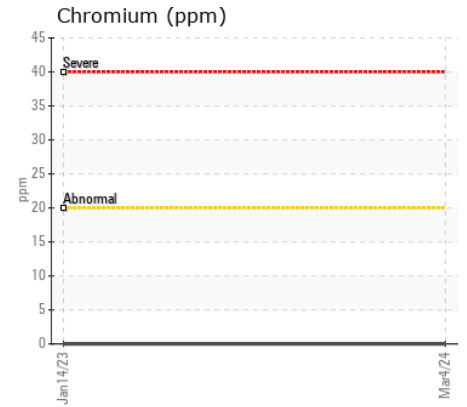
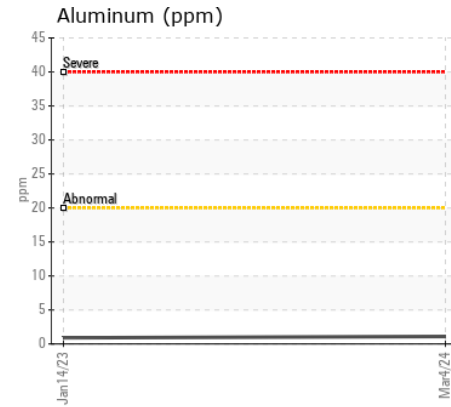
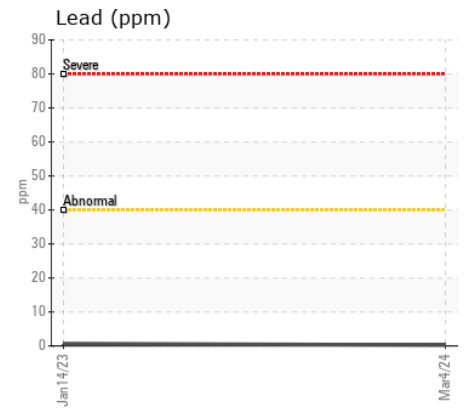
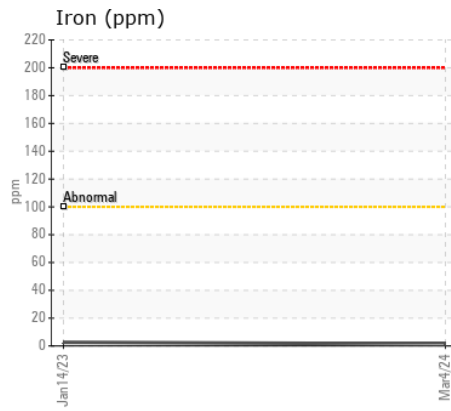
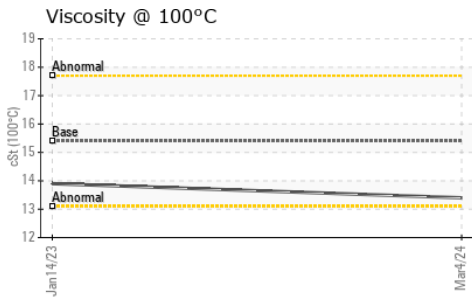
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	5	---
Potassium	ppm	ASTM D5185(m)	>20	<1	0	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	6.0	5.3	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.2	19.0	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>192	1	2	---
Boron	ppm	ASTM D5185(m)		37	2	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		35	55	---
Manganese	ppm	ASTM D5185(m)		0	<1	---
Magnesium	ppm	ASTM D5185(m)		535	937	---
Calcium	ppm	ASTM D5185(m)	3780	1478	1051	---
Phosphorus	ppm	ASTM D5185(m)	1370	989	1062	---
Zinc	ppm	ASTM D5185(m)	1500	1098	1150	---
Sulfur	ppm	ASTM D5185(m)	3800	3041	2653	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.9	13.9	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.4	13.9	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005800 **Received** : 07 Mar 2024
Lab Number : 02620487 **Tested** : 07 Mar 2024
Unique Number : 5737597 **Diagnosed** : 07 Mar 2024 - Kevin Marson
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.