



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

Machine Id  
**200 BAY ST TORONTO COLLIERS UNIT #4**  
 Component  
**Right Diesel Engine**  
 Fluid  
**ESSO XD-3 EXTRA SAE 40 (--- LTR)**

**RECOMMENDATION**

Confirm the source of the lubricant being utilized for top-up/fill.  
 Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0006102</b>	PN0005839	---
Sample Date		Client Info		<b>25 Apr 2024</b>	14 Feb 2024	---
Machine Age	hrs	Client Info		<b>80</b>	76	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Not Changd	---
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	---
Sample Status				<b>NORMAL</b>	NORMAL	---

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>200	<b>3</b>	3	---
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	---
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	---
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>30	<b>1</b>	2	---
Lead	ppm	ASTM D5185(m)	>30	<b>2</b>	3	---
Copper	ppm	ASTM D5185(m)	>30	<b>3</b>	6	---
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>NONE</b>	VLITE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

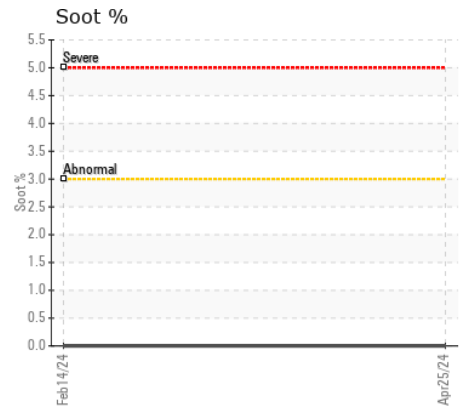
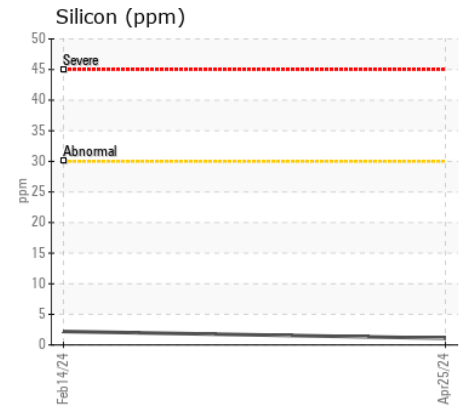
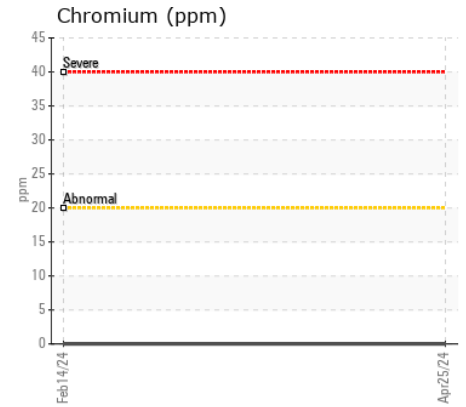
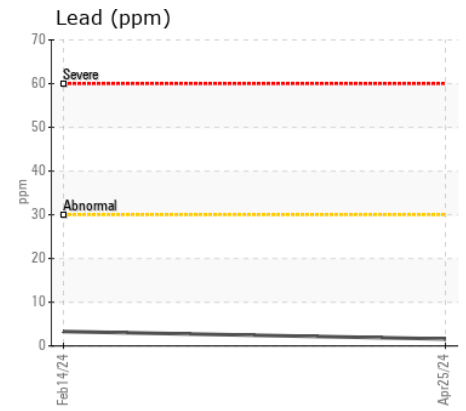
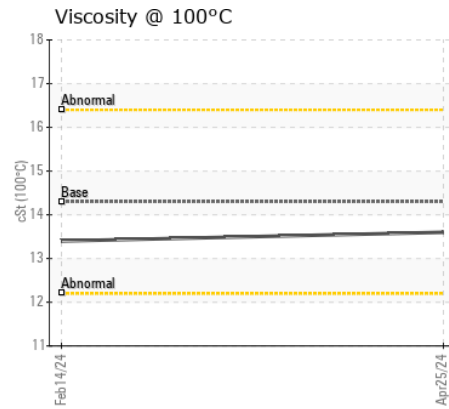
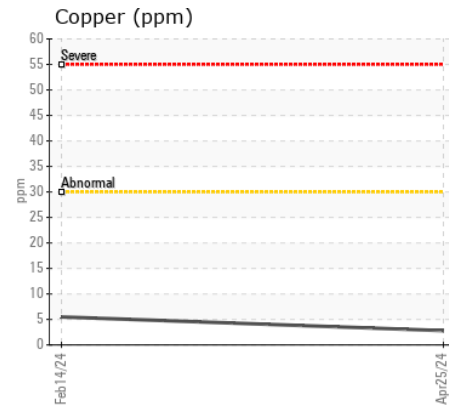
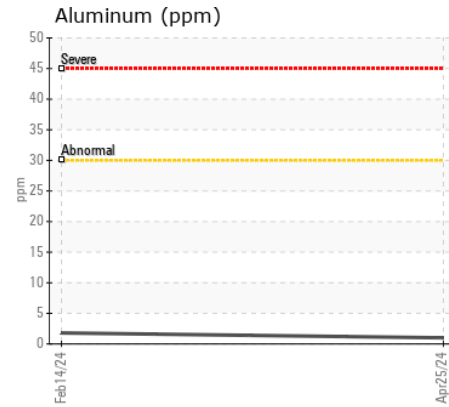
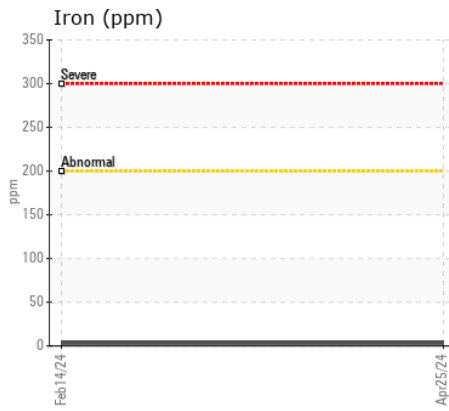
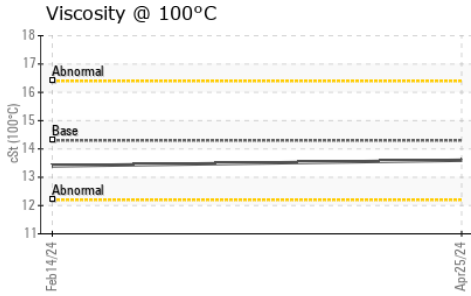
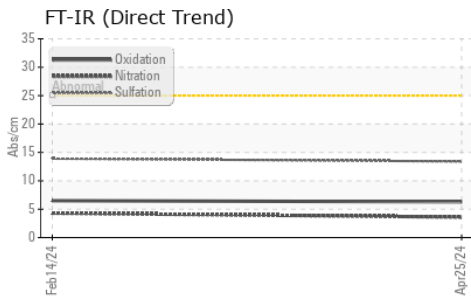
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	<b>1</b>	2	---
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	---
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>3.6</b>	4.3	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>13.4</b>	13.9	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---

**FLUID CONDITION**

Additive levels indicate the addition of a different brand, or type of oil.  
 The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>3</b>	2	---
Boron	ppm	ASTM D5185(m)		<b>2</b>	2	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)		<b>107</b>	104	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	---
Magnesium	ppm	ASTM D5185(m)		<b>54</b>	72	---
Calcium	ppm	ASTM D5185(m)	2550	<b>2528</b>	2482	---
Phosphorus	ppm	ASTM D5185(m)	1000	<b>998</b>	996	---
Zinc	ppm	ASTM D5185(m)	1120	<b>1109</b>	1076	---
Sulfur	ppm	ASTM D5185(m)		<b>3084</b>	3778	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>6.3</b>	6.5	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	<b>13.6</b>	13.4	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006102 **Received** : 26 Apr 2024  
**Lab Number** : 02631525 **Tested** : 26 Apr 2024  
**Unique Number** : 5772678 **Diagnosed** : 26 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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