



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

Area  
**[86321]**  
Machine Id

**5420 NORTH SERVICE R BURLINGTON COLLIERS COLLIERS**

Component  
**Left Diesel Engine**

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

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0006187</b>	PN0004645	PN0003395
Sample Date		Client Info		<b>15 May 2024</b>	17 May 2023	04 Mar 2022
Machine Age	hrs	Client Info		<b>55</b>	38	24
Oil Age	hrs	Client Info		<b>0</b>	14	24
Filter Age	hrs	Client Info		<b>0</b>	14	24
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	<b>3</b>	3	4
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	2	1
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	1
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	6	13
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	VLITE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	NONE

**CONTAMINATION**

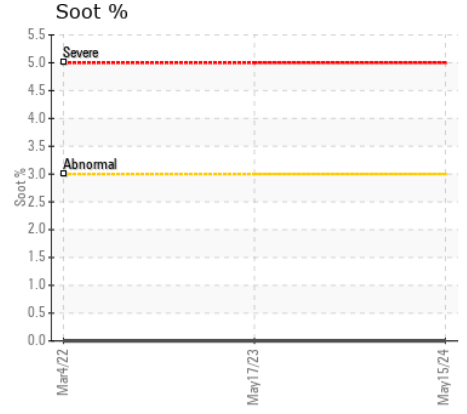
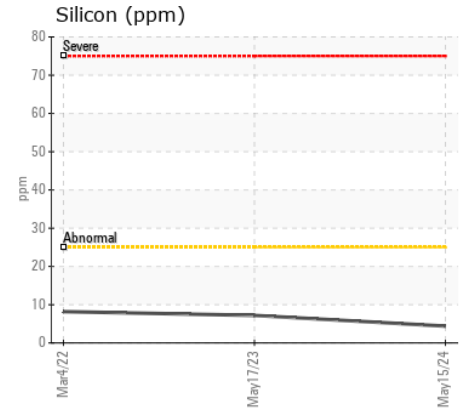
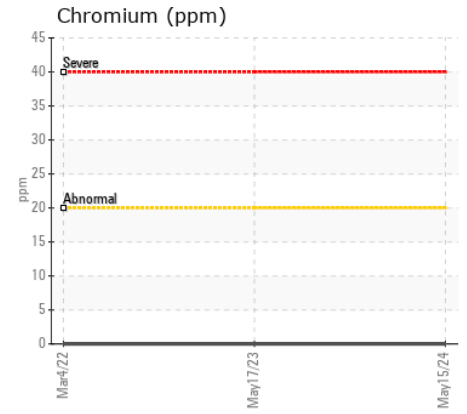
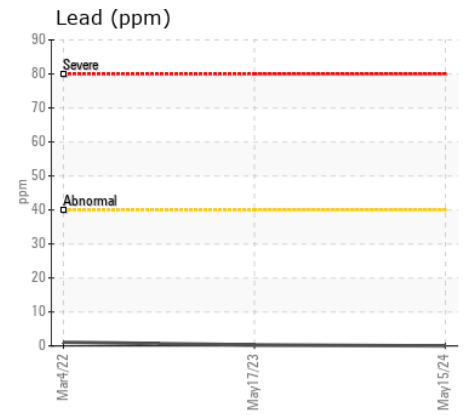
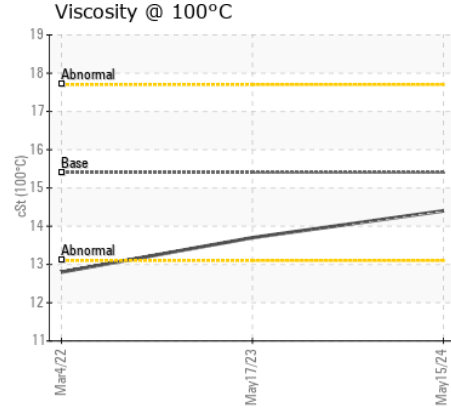
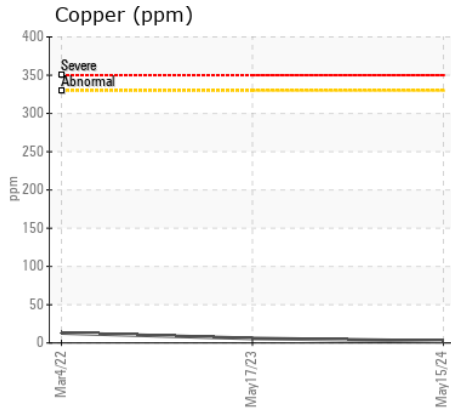
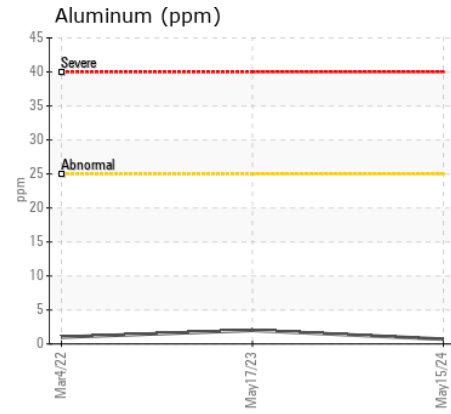
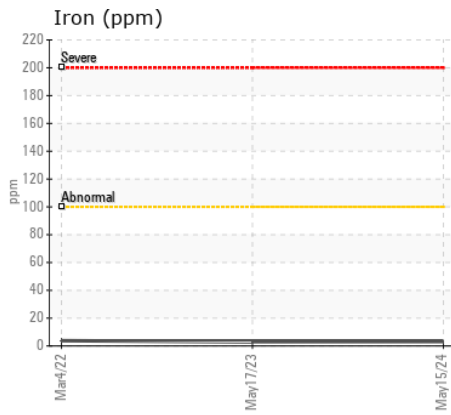
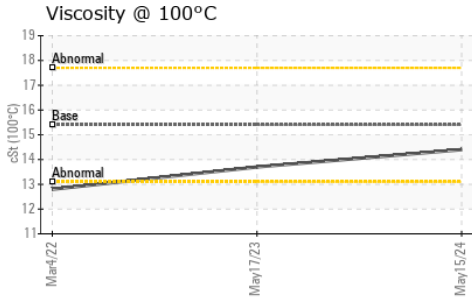
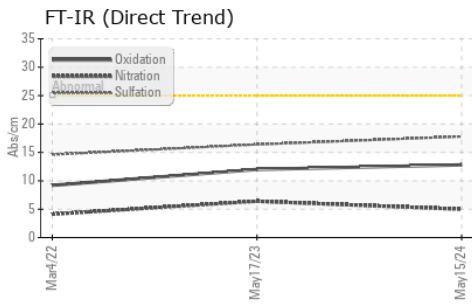
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	7	8
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	6	2
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	0.6
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.0</b>	6.4	4.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.8</b>	16.4	14.6
Silt	scalar	Visual*	NONE	<b>VLITE</b>	---	NONE
Debris	scalar	Visual*	NONE	<b>VLITE</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	NORML
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)	>192	<b>4</b>	5	4
Boron	ppm	ASTM D5185(m)		<b>37</b>	56	11
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)		<b>61</b>	68	9
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	2
Magnesium	ppm	ASTM D5185(m)		<b>718</b>	48	154
Calcium	ppm	ASTM D5185(m)	3780	<b>1327</b>	2190	2010
Phosphorus	ppm	ASTM D5185(m)	1370	<b>992</b>	1060	926
Zinc	ppm	ASTM D5185(m)	1500	<b>1147</b>	1078	1020
Sulfur	ppm	ASTM D5185(m)	3800	<b>2704</b>	3022	2384
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>12.8</b>	12.0	9.2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.4</b>	13.7	12.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006187 **Received** : 24 May 2024  
**Lab Number** : 02637376 **Tested** : 24 May 2024  
**Unique Number** : 5786538 **Diagnosed** : 24 May 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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