



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

Area  
**[82867]**

Machine Id  
**627 QUEENS QUAY W TORONTO WATERFRONT CITY OF TORONTO 45376402**

Component  
**Rear 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>PN0005525</b>	PN0004337	PN0003106
Sample Date		Client Info		<b>15 Dec 2023</b>	12 Jan 2022	16 Dec 2021
Machine Age	hrs	Client Info		<b>372</b>	358	347
Oil Age	hrs	Client Info		<b>352</b>	0	39
Filter Age	hrs	Client Info		<b>352</b>	0	39
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changd</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)	>90	<b>1</b>	2	2
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	2	1
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	5	<1
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

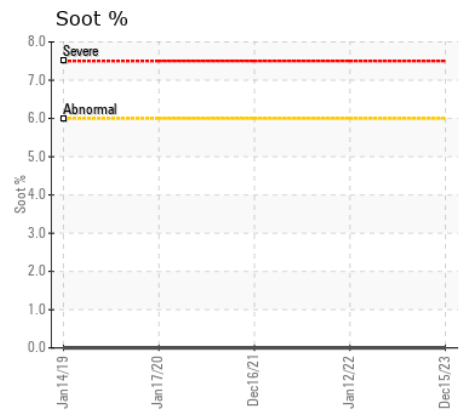
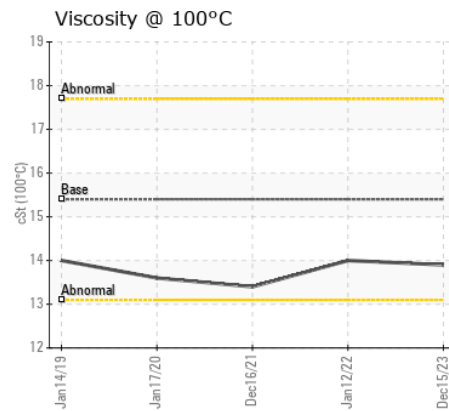
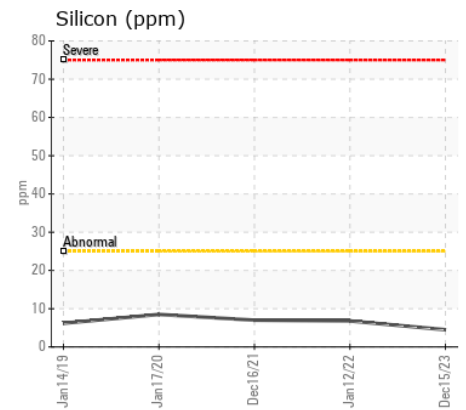
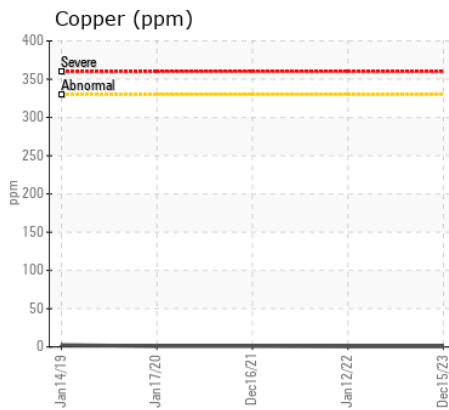
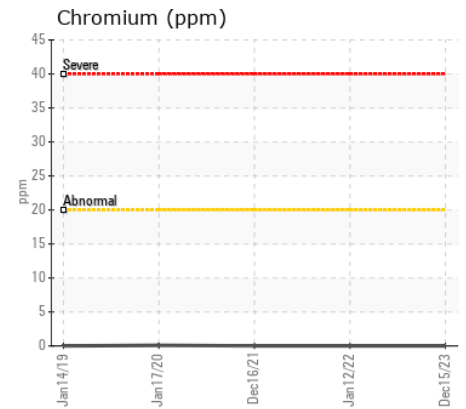
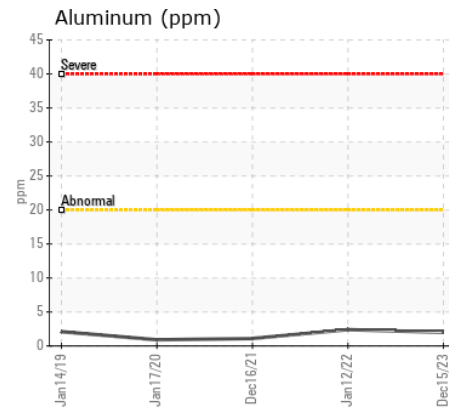
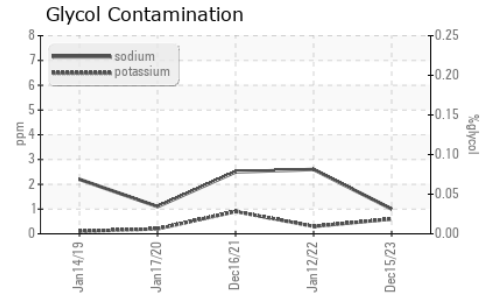
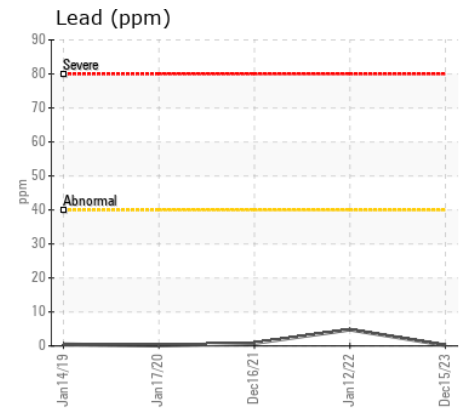
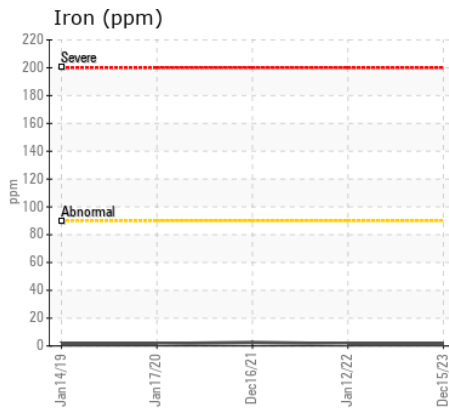
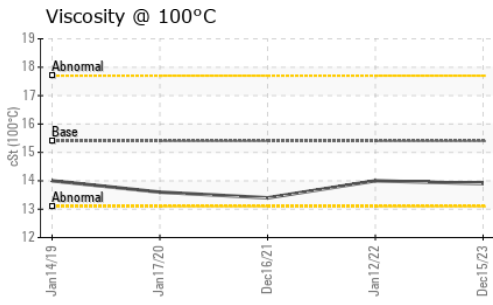
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	7	7
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol	%	ASTM D7922*		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>6	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>7.1</b>	7.2	6.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>16.8</b>	18.4	21.4
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>1</b>	3	2
Boron	ppm	ASTM D5185(m)		<b>71</b>	84	72
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>17</b>	77	45
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)		<b>44</b>	67	432
Calcium	ppm	ASTM D5185(m)	3780	<b>2071</b>	2242	1634
Phosphorus	ppm	ASTM D5185(m)	1370	<b>1004</b>	1026	815
Zinc	ppm	ASTM D5185(m)	1500	<b>1089</b>	1108	914
Sulfur	ppm	ASTM D5185(m)	3800	<b>3401</b>	3114	2391
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>12.6</b>	13.5	18.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.9</b>	14.0	13.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005525 **Recieved** : 12 Jan 2024  
**Lab Number** : 02608509 **Diagnosed** : 15 Jan 2024  
**Unique Number** : 5709595 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: Glycol )

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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