



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

Area

**[83240]**

Machine Id

**3197 LAKESHORE BLVD W. ETOBICOKE LAKESHORE LODGE CITY OF TORONTO 11521982**

Component

**Rear Diesel Engine**

Fluid

**ESSO XD-3 EXTRA 15W40 (40 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0005547</b>	PN0002873	PN0002875
Sample Date		Client Info		<b>13 Dec 2023</b>	09 Sep 2021	09 Sep 2021
Machine Age	hrs	Client Info		<b>555</b>	520	520
Oil Age	hrs	Client Info		<b>520</b>	0	0
Filter Age	hrs	Client Info		<b>520</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>90	<b>1</b>	1	18
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	2	3
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	2	2
Copper	ppm	ASTM D5185(m)	>330	<b>4</b>	4	3
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	5
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

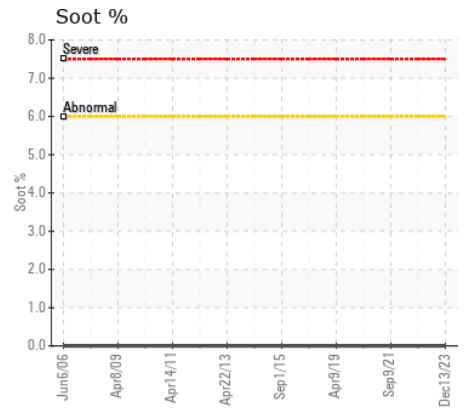
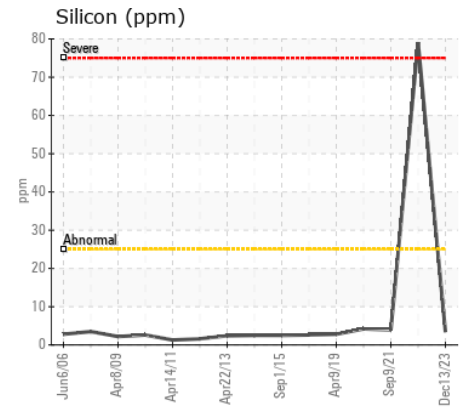
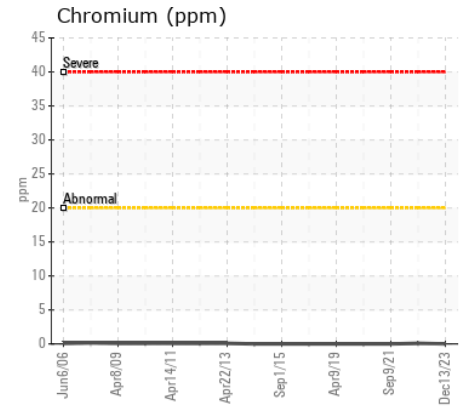
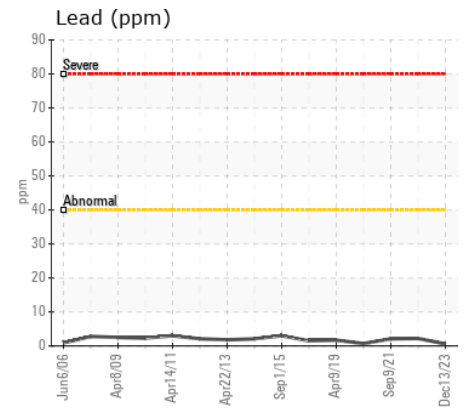
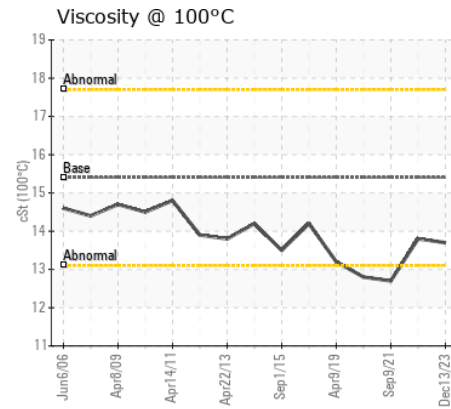
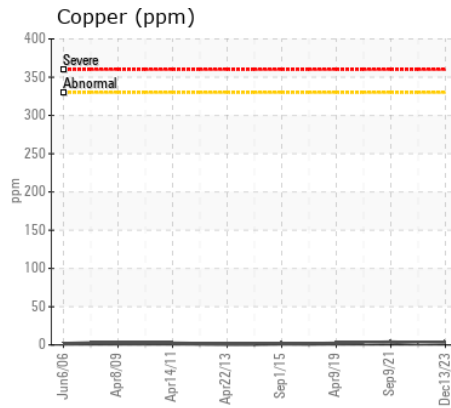
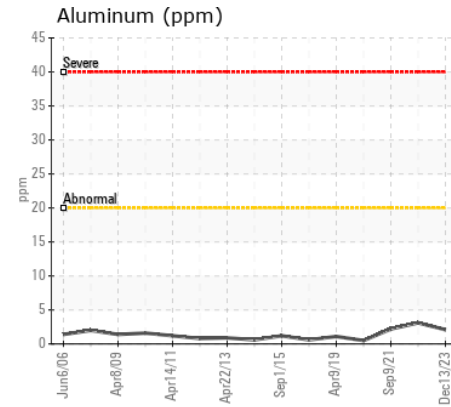
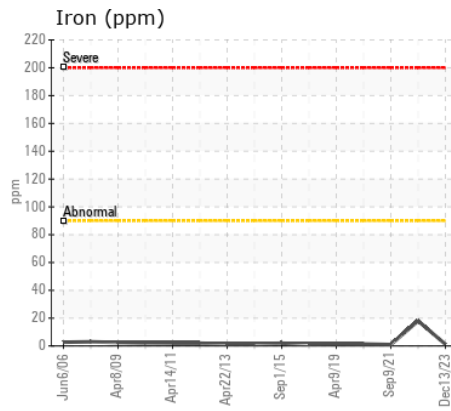
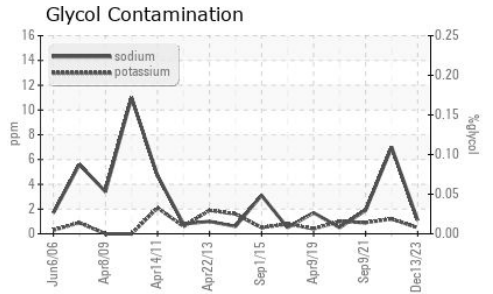
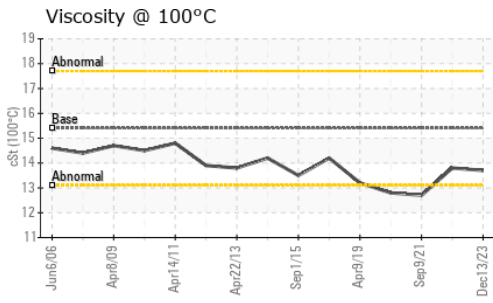
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	4	▲ 79
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>4.6</b>	7.2	8.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.6</b>	18.3	19.0
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
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>1</b>	2	7
Boron	ppm	ASTM D5185(m)		<b>246</b>	68	58
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>69</b>	84	84
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	2
Magnesium	ppm	ASTM D5185(m)		<b>359</b>	59	157
Calcium	ppm	ASTM D5185(m)	3780	<b>1692</b>	2084	2028
Phosphorus	ppm	ASTM D5185(m)	1370	<b>1036</b>	1052	1002
Zinc	ppm	ASTM D5185(m)	1500	<b>1151</b>	1160	1114
Sulfur	ppm	ASTM D5185(m)	3800	<b>2980</b>	3194	2968
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.3</b>	13.3	13.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.7</b>	13.8	12.7



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005547 **Received** : 12 Jan 2024  
**Lab Number** : 02608510 **Diagnosed** : 15 Jan 2024  
**Unique Number** : 5709596 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: Glycol, 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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