



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[83016]
 Machine Id
495 SHERBOURNE TORONTO CITY OF TORONTO OE20191005
 Component
Left Natural Gas Engine
 Fluid
ESSO XD-3 EXTRA 15W40 (8 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005749	PN0004418	---
Sample Date		Client Info		18 Dec 2023	22 Dec 2022	---
Machine Age	hrs	Client Info		32	19	---
Oil Age	hrs	Client Info		0	19	---
Filter Age	hrs	Client Info		0	19	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>50	18	34	---
Chromium	ppm	ASTM D5185(m)	>4	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>3	0	0	---
Aluminum	ppm	ASTM D5185(m)	>9	2	2	---
Lead	ppm	ASTM D5185(m)	>30	6	35	---
Copper	ppm	ASTM D5185(m)	>35	6	32	---
Tin	ppm	ASTM D5185(m)	>4	1	5	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

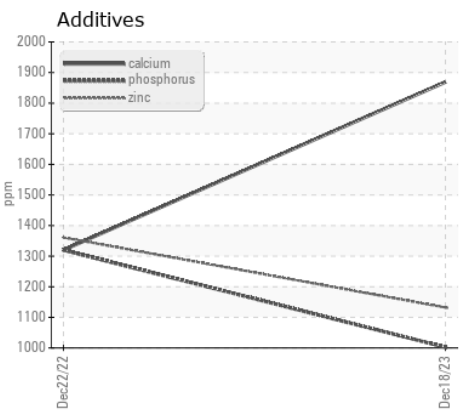
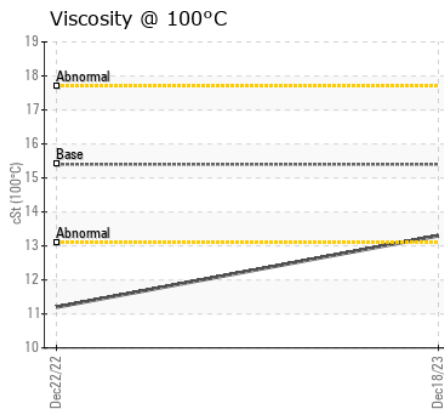
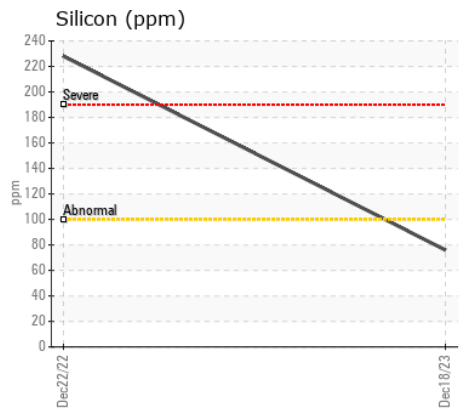
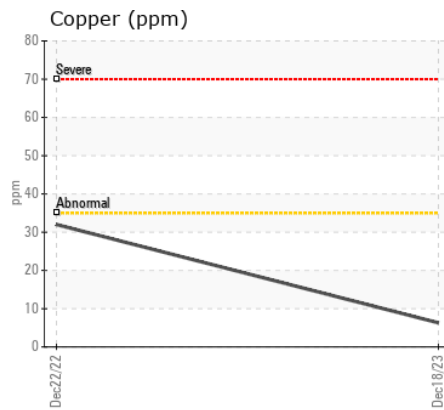
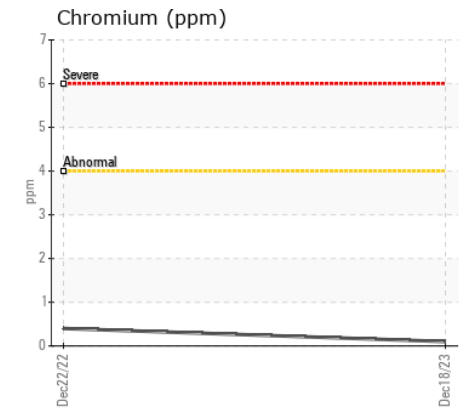
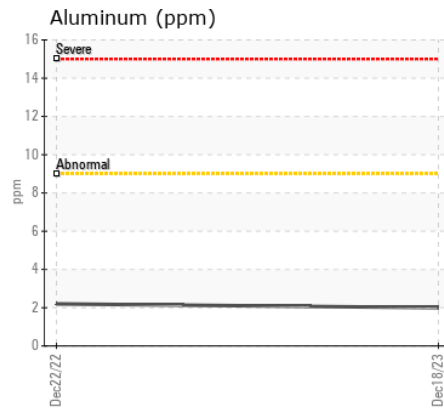
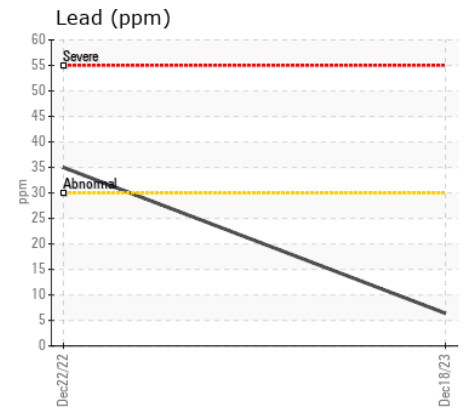
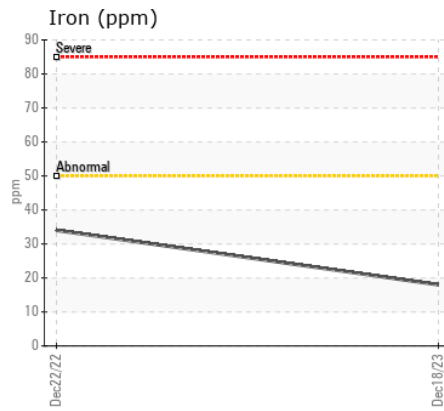
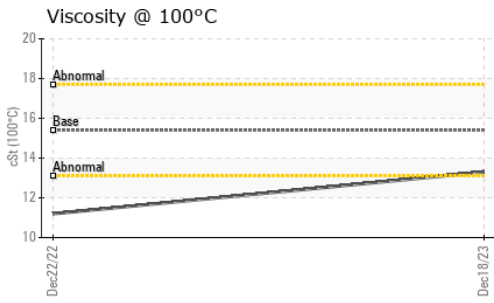
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	76	228	---
Potassium	ppm	ASTM D5185(m)	>20	2	8	---
Water		WC Method	>0.1	NEG	NEG	---
Soot %	%	ASTM D7844*		0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	7.0	6.7	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.7	24.1	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>192	4	15	---
Boron	ppm	ASTM D5185(m)		56	71	---
Barium	ppm	ASTM D5185(m)		<1	4	---
Molybdenum	ppm	ASTM D5185(m)		9	15	---
Manganese	ppm	ASTM D5185(m)		<1	3	---
Magnesium	ppm	ASTM D5185(m)		183	632	---
Calcium	ppm	ASTM D5185(m)	3780	1869	1320	---
Phosphorus	ppm	ASTM D5185(m)	1370	1002	1320	---
Zinc	ppm	ASTM D5185(m)	1500	1132	1361	---
Sulfur	ppm	ASTM D5185(m)	3800	4478	9846	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.5	15.6	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.3	▲ 11.2	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005749 **Received** : 04 Jan 2024
Lab Number : 02606534 **Diagnosed** : 05 Jan 2024
Unique Number : 5707620 **Diagnostician** : Wes Davis
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.