



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[83279]

Machine Id

439 SHERBOURNE ST TORONTO CITY OF TORONTO CITY OF TORONTO

Component

Right Diesel Engine

Fluid

ESSO XD-3 EXTRA 15W40 (20 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005527	---	---
Sample Date		Client Info		15 Dec 2023	---	---
Machine Age	hrs	Client Info		852	---	---
Oil Age	hrs	Client Info		69	---	---
Filter Age	hrs	Client Info		69	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				NORMAL	---	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>90	2	---	---
Chromium	ppm	ASTM D5185(m)	>20	0	---	---
Nickel	ppm	ASTM D5185(m)	>2	0	---	---
Titanium	ppm	ASTM D5185(m)	>2	0	---	---
Silver	ppm	ASTM D5185(m)	>2	0	---	---
Aluminum	ppm	ASTM D5185(m)	>20	2	---	---
Lead	ppm	ASTM D5185(m)	>40	<1	---	---
Copper	ppm	ASTM D5185(m)	>330	<1	---	---
Tin	ppm	ASTM D5185(m)	>15	0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---

CONTAMINATION

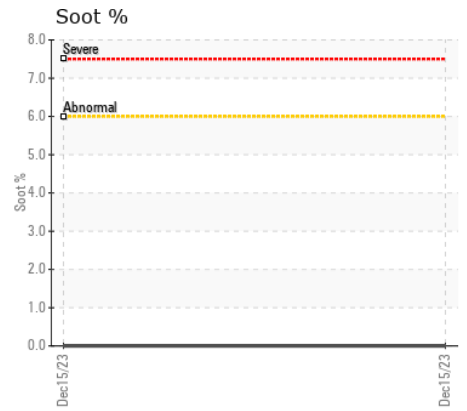
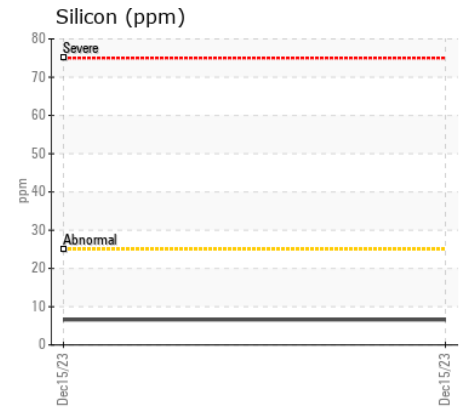
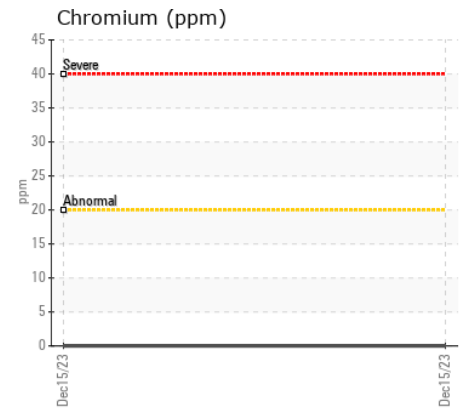
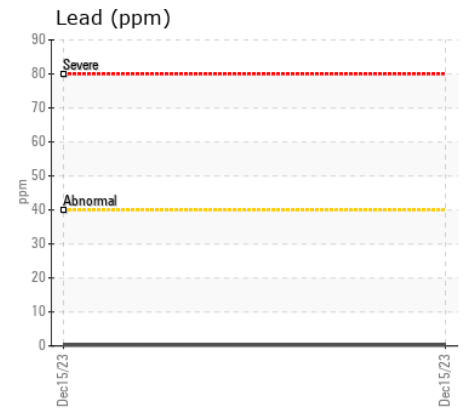
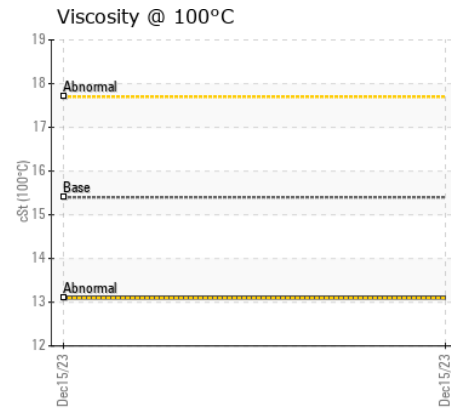
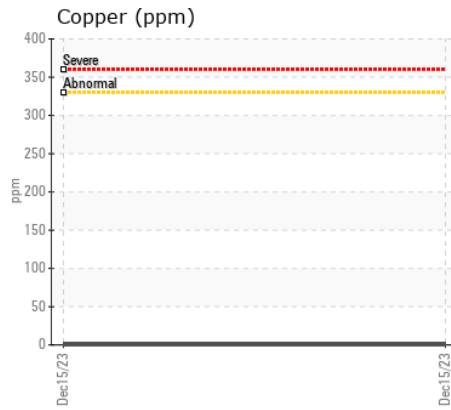
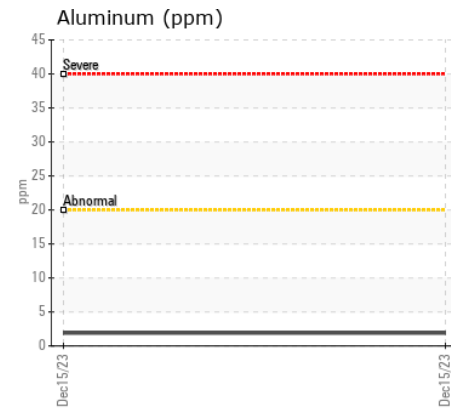
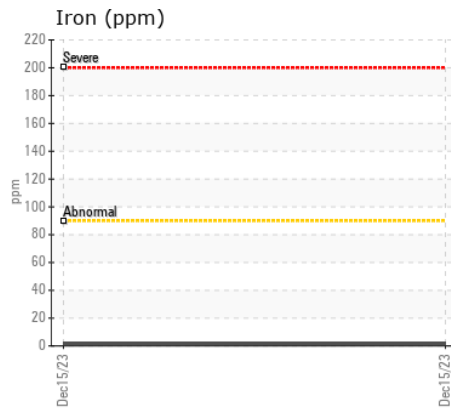
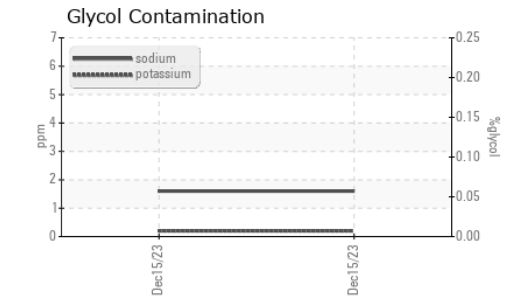
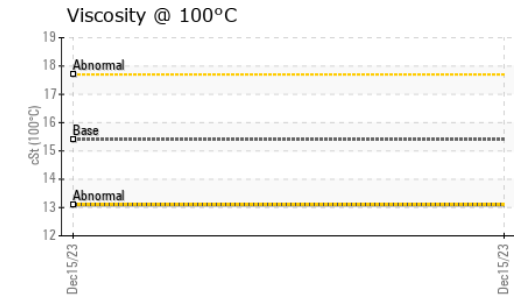
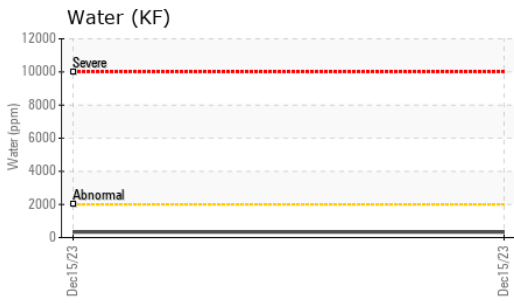
The water content is negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	7	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---
Fuel		WC Method	>3.0	<1.0	---	---
Water	%	ASTM D6304*	>0.2	0.033	---	---
ppm Water	ppm	ASTM D6304*	>2000	333	---	---
Glycol	%	ASTM D7922*		NEG	---	---
Soot %	%	ASTM D7844*	>6	0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	5.3	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.9	---	---
Emulsified Water	scalar	Visual*	>0.2	.2%	---	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>192	2	---	---
Boron	ppm	ASTM D5185(m)		168	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		65	---	---
Manganese	ppm	ASTM D5185(m)		0	---	---
Magnesium	ppm	ASTM D5185(m)		331	---	---
Calcium	ppm	ASTM D5185(m)	3780	1734	---	---
Phosphorus	ppm	ASTM D5185(m)	1370	1016	---	---
Zinc	ppm	ASTM D5185(m)	1500	1115	---	---
Sulfur	ppm	ASTM D5185(m)	3800	3002	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.1	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.1	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005527 **Received** : 12 Jan 2024
Lab Number : 02608518 **Diagnosed** : 16 Jan 2024
Unique Number : 5709604 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, KF)

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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