



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[85243]

Machine Id

2 CHURCH AVE NORTH YORK TTC - SUBWAY TTC - SUBWAY

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		PN0006147	PN0005324	---
Sample Date		Client Info		02 May 2024	11 Oct 2023	---
Machine Age	hrs	Client Info		418	410	---
Oil Age	hrs	Client Info		410	0	---
Filter Age	hrs	Client Info		410	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Not Changd	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

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

CONTAMINATION

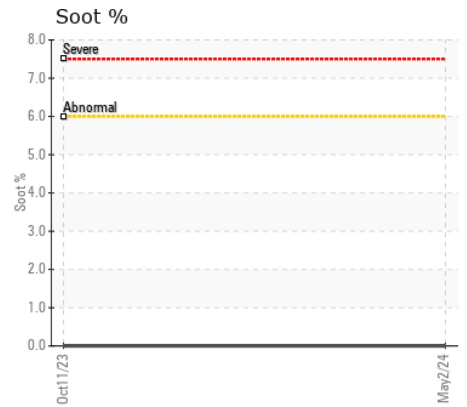
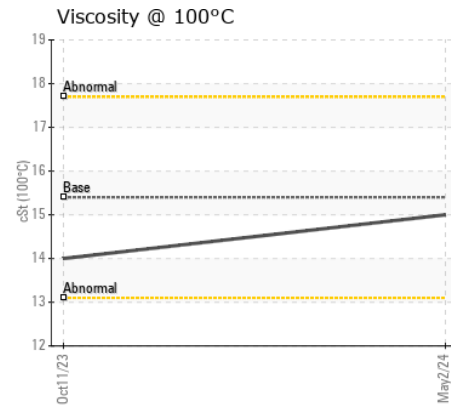
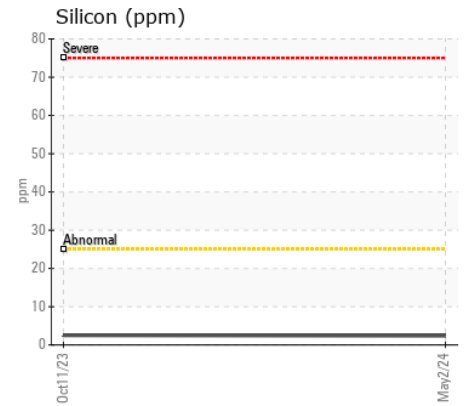
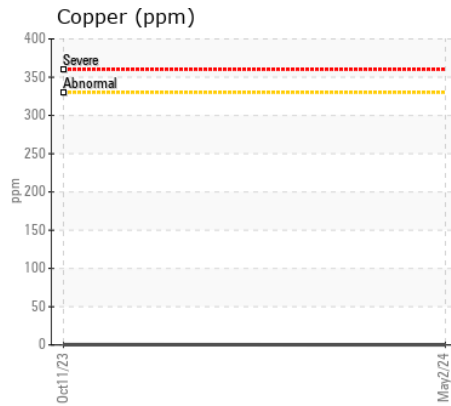
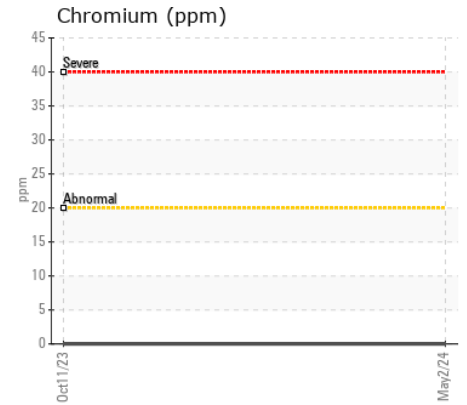
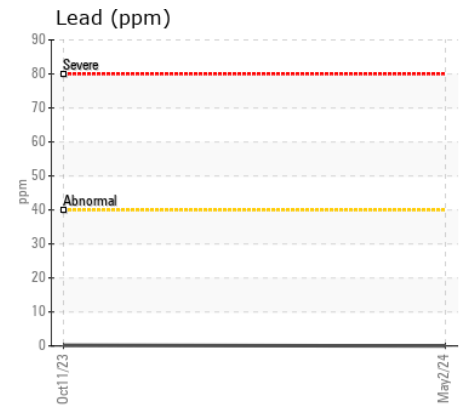
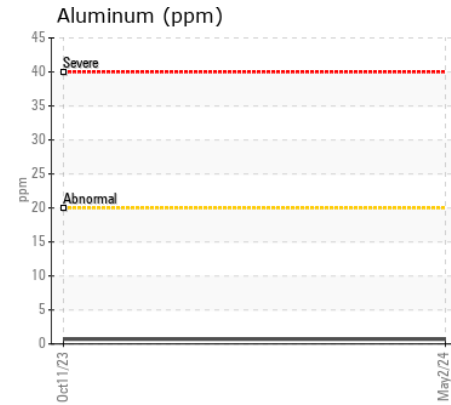
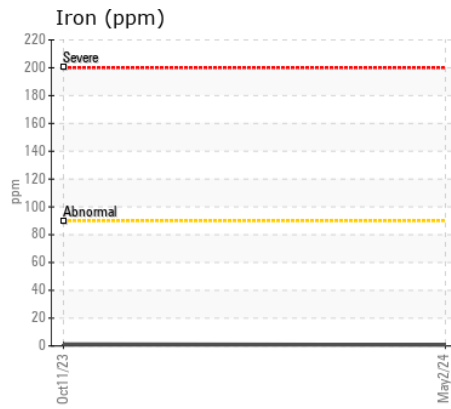
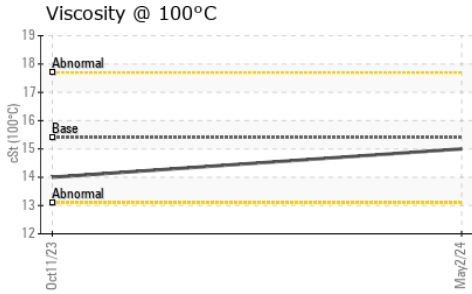
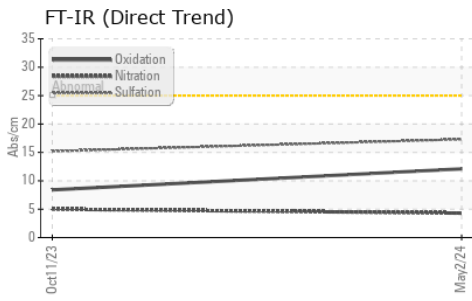
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	2	---
Potassium	ppm	ASTM D5185(m)	>20	0	0	---
Fuel		WC Method	>3.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>6	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	4.3	5.0	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.3	15.2	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>192	1	2	---
Boron	ppm	ASTM D5185(m)		1	4	---
Barium	ppm	ASTM D5185(m)		0	<1	---
Molybdenum	ppm	ASTM D5185(m)		51	1	---
Manganese	ppm	ASTM D5185(m)		0	0	---
Magnesium	ppm	ASTM D5185(m)		867	13	---
Calcium	ppm	ASTM D5185(m)	3780	1176	2113	---
Phosphorus	ppm	ASTM D5185(m)	1370	971	830	---
Zinc	ppm	ASTM D5185(m)	1500	1133	921	---
Sulfur	ppm	ASTM D5185(m)	3800	2603	2873	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.1	8.4	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	15.0	14.0	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006147
Lab Number : 02633797
Unique Number : 5774950
Test Package : MOB 1
Received : 07 May 2024
Tested : 07 May 2024
Diagnosed : 07 May 2024 - Kevin Marson

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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.