



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
153 CHATHAM AVE TORONTO CITY OF TORONTO 8.8L009711

Component
Rear Diesel Engine

Fluid
ESSO XD-3 EXTRA 15W40 (10 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005674	PN0004517	PN0003211
Sample Date		Client Info		17 Jan 2024	23 Jan 2023	25 Jan 2022
Machine Age	hrs	Client Info		89	75	61
Oil Age	hrs	Client Info		14	0	16
Filter Age	hrs	Client Info		14	0	16
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Not Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	3	6	7
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	3	3
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<1	1	2
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

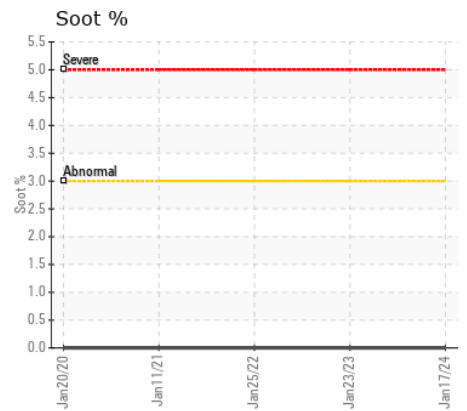
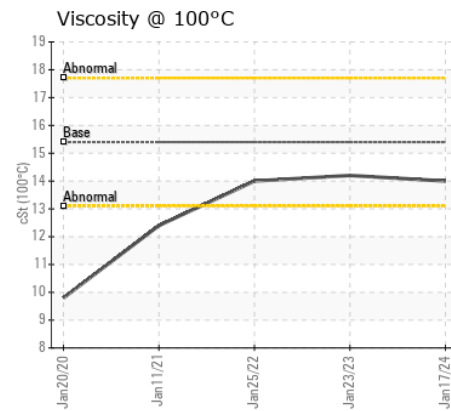
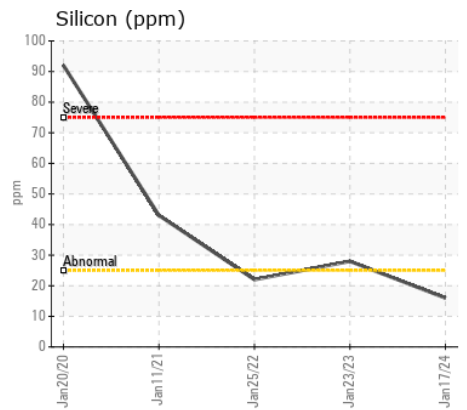
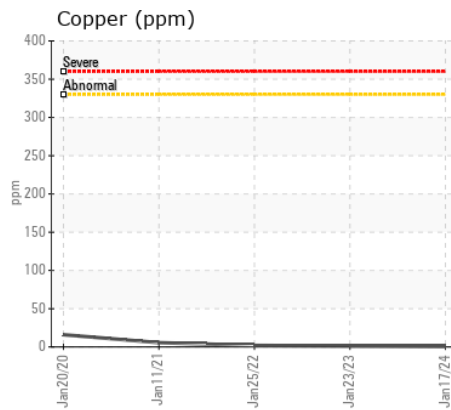
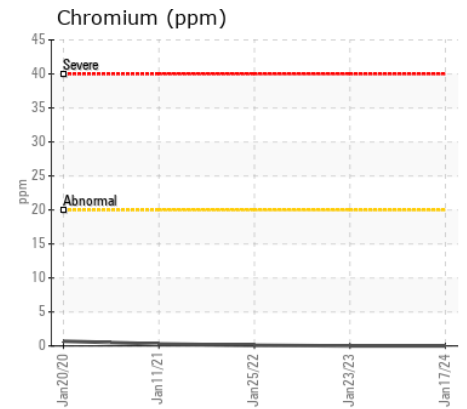
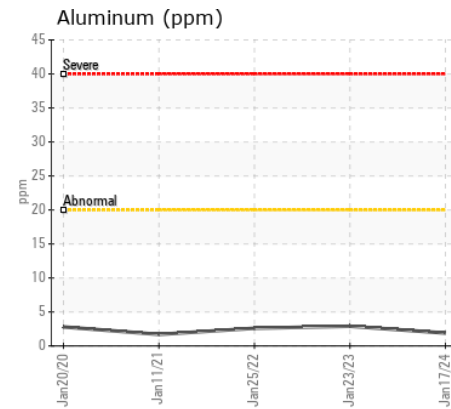
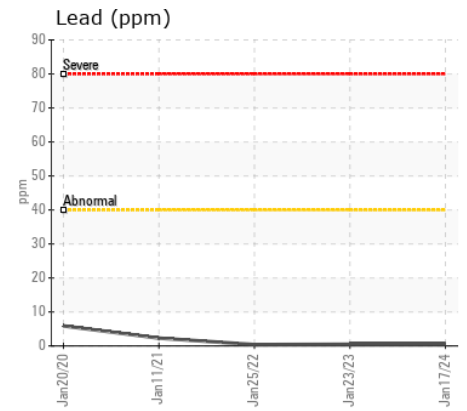
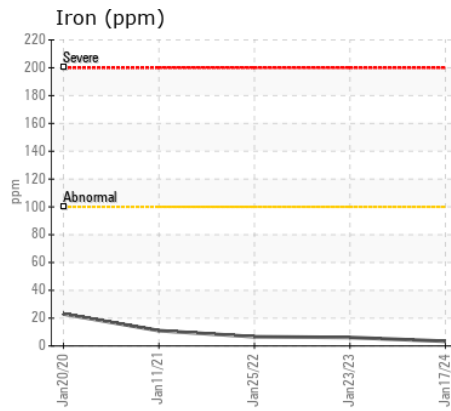
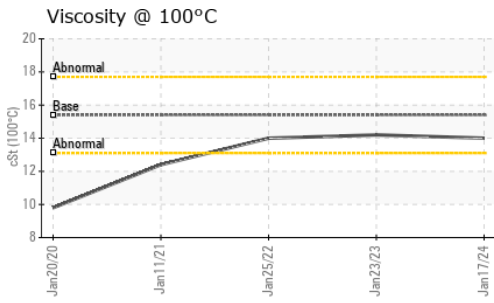
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	16	28	22
Potassium	ppm	ASTM D5185(m)	>20	<1	0	2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	7.1	7.1	7.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.2	18.0	18.6
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>192	1	3	3
Boron	ppm	ASTM D5185(m)		61	63	67
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		28	85	81
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		181	33	93
Calcium	ppm	ASTM D5185(m)	3780	1912	2154	2052
Phosphorus	ppm	ASTM D5185(m)	1370	998	1064	994
Zinc	ppm	ASTM D5185(m)	1500	1105	1093	1116
Sulfur	ppm	ASTM D5185(m)	3800	3366	3175	3084
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.7	11.7	13.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.0	14.2	14.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005674 **Received** : 19 Jan 2024
Lab Number : 02609941 **Diagnosed** : 19 Jan 2024
Unique Number : 5711027 **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.