



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
895 EASTERN AVE TORONTO CITY OF TORONTO SG0400LG30219N18HPLYE

Component
Rear Natural Gas 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		PN0005529	PN0004457	PN0003107
Sample Date		Client Info		16 Dec 2023	10 Dec 2022	18 Dec 2021
Machine Age	hrs	Client Info		134	89	73
Oil Age	hrs	Client Info		43	16	21
Filter Age	hrs	Client Info		43	16	21
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>50	2	2	2
Chromium	ppm	ASTM D5185(m)	>4	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>9	2	2	2
Lead	ppm	ASTM D5185(m)	>30	4	4	4
Copper	ppm	ASTM D5185(m)	>35	139	128	115
Tin	ppm	ASTM D5185(m)	>4	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

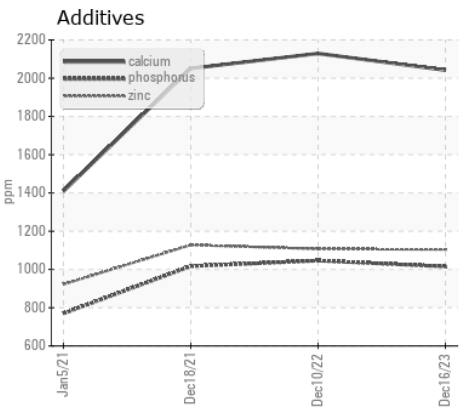
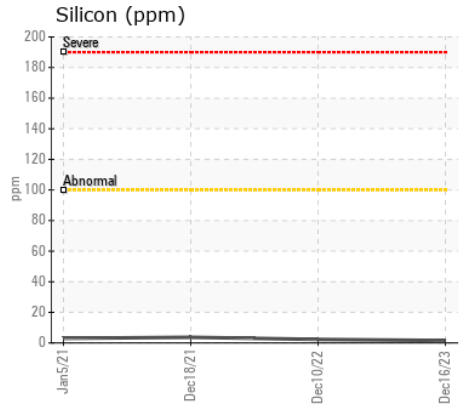
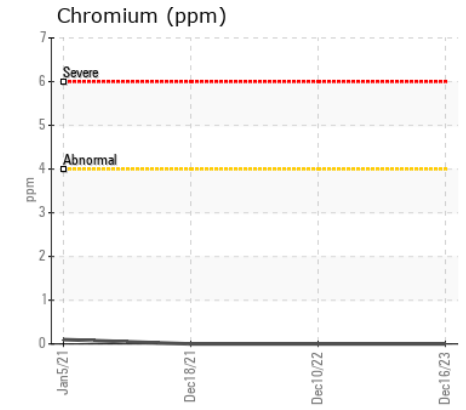
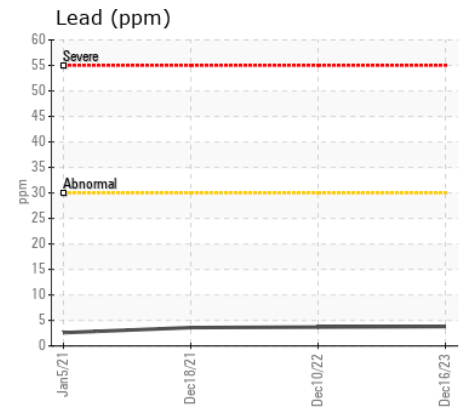
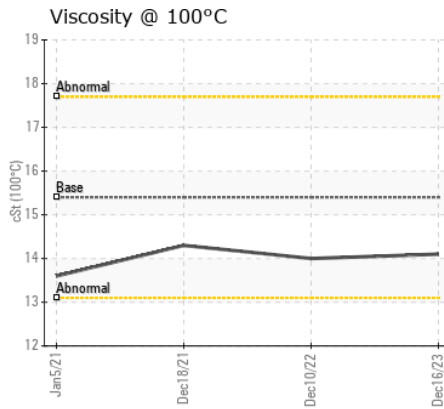
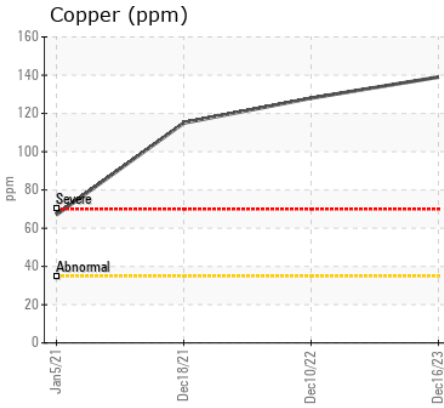
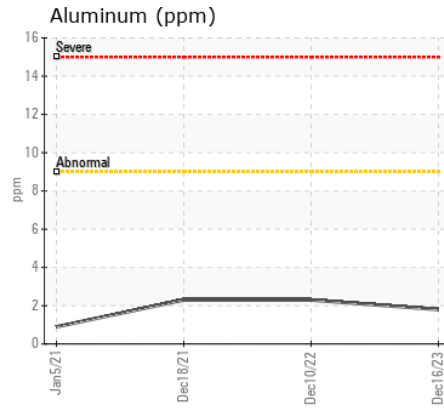
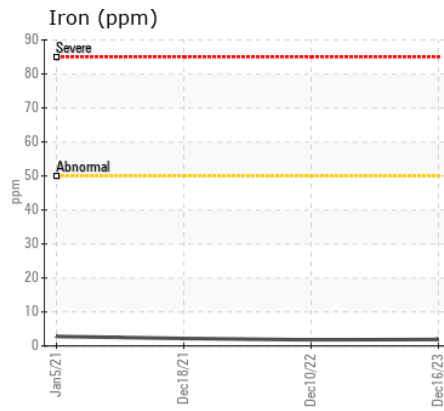
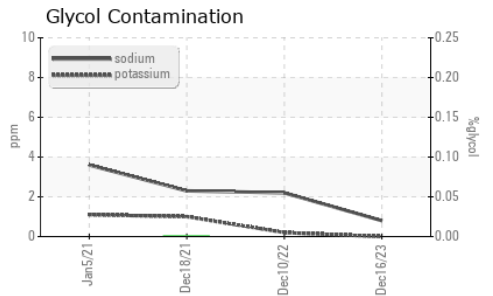
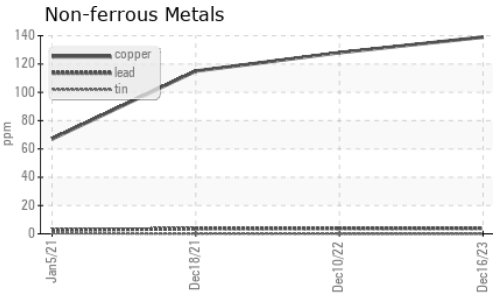
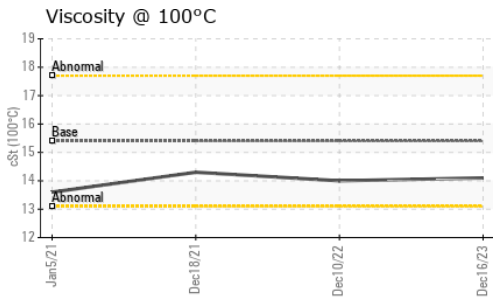
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	2	2	4
Potassium	ppm	ASTM D5185(m)	>20	0	<1	1
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol	%	ASTM D7922*		---	---	0.0
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	8.0	7.9	7.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.3	18.4	18.5
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	.1%

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>192	<1	2	2
Boron	ppm	ASTM D5185(m)		61	74	65
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		18	77	77
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		91	45	115
Calcium	ppm	ASTM D5185(m)	3780	2042	2129	2051
Phosphorus	ppm	ASTM D5185(m)	1370	1015	1046	1017
Zinc	ppm	ASTM D5185(m)	1500	1104	1107	1128
Sulfur	ppm	ASTM D5185(m)	3800	3406	3106	3170
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.0	13.4	13.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.1	14.0	14.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005529 **Received** : 12 Jan 2024
Lab Number : 02608508 **Diagnosed** : 15 Jan 2024
Unique Number : 5709594 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol)

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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