



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[83508]
 Machine Id
2120 KIPLING AVE CITY OF TORONTO 3003526497
 Component
Natural Gas Engine
 Fluid
ESSO XD-3 EXTRA 15W40 (12 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005657	PN0003257	PN0002066
Sample Date		Client Info		11 Jan 2024	14 Jan 2022	08 Jan 2021
Machine Age	hrs	Client Info		180	112	80
Oil Age	hrs	Client Info		35	32	30
Filter Age	hrs	Client Info		35	32	30
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>50	8	6	10
Chromium	ppm	ASTM D5185(m)	>4	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>9	2	3	2
Lead	ppm	ASTM D5185(m)	>30	2	2	4
Copper	ppm	ASTM D5185(m)	>35	3	3	6
Tin	ppm	ASTM D5185(m)	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	<1

CONTAMINATION

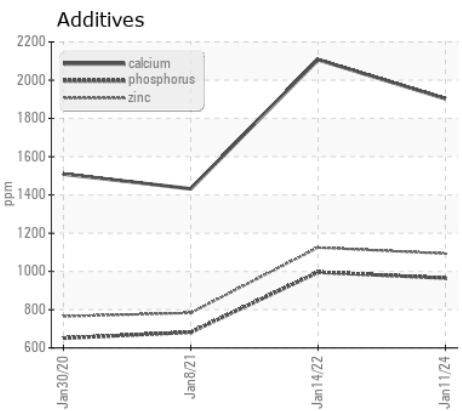
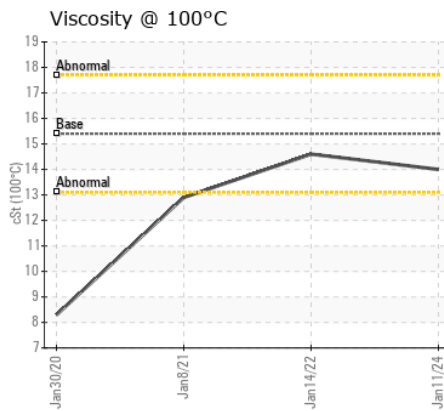
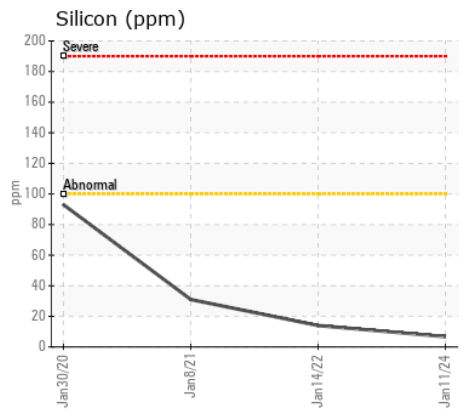
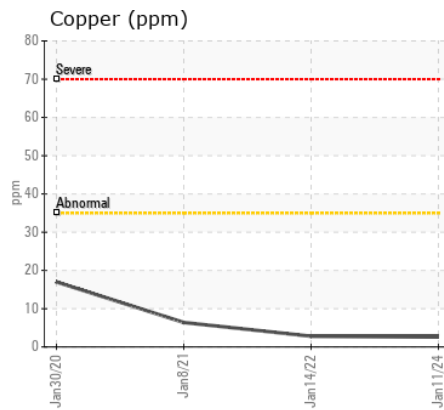
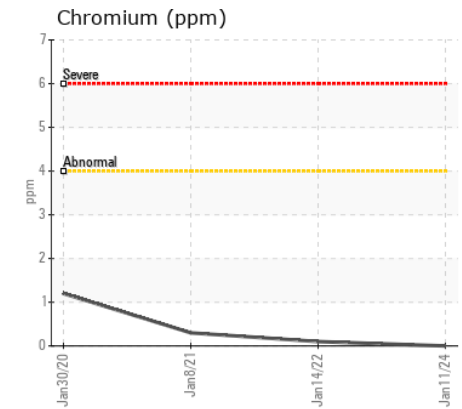
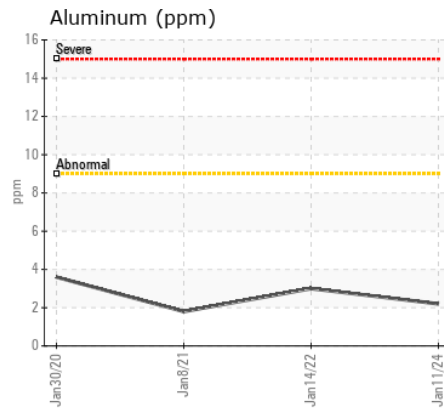
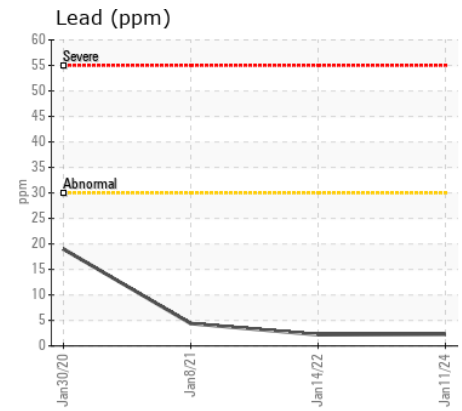
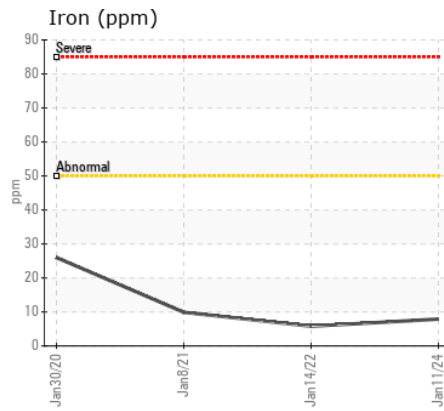
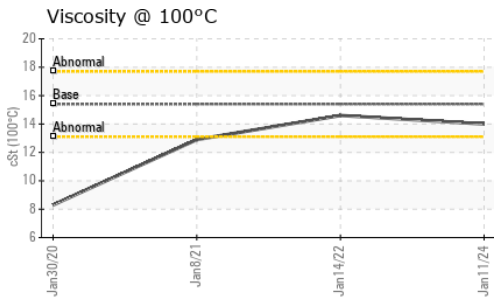
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	7	14	31
Potassium	ppm	ASTM D5185(m)	>20	<1	0	1
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		---	---	---
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	7.5	7.9	6.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.0	19.2	20.1
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>192	1	4	7
Boron	ppm	ASTM D5185(m)		58	64	54
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		30	82	22
Manganese	ppm	ASTM D5185(m)		0	<1	2
Magnesium	ppm	ASTM D5185(m)		222	76	566
Calcium	ppm	ASTM D5185(m)	3780	1903	2107	1432
Phosphorus	ppm	ASTM D5185(m)	1370	965	996	682
Zinc	ppm	ASTM D5185(m)	1500	1093	1125	783
Sulfur	ppm	ASTM D5185(m)	3800	3121	3056	2192
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.7	14.0	15.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.0	14.6	12.9



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005657 **Received** : 16 Jan 2024
Lab Number : 02608975 **Diagnosed** : 16 Jan 2024
Unique Number : 5710061 **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.