



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[86041]
 Machine Id

320 BERING AVENUE TORONTO CITY OF TORONTO CITY OF TORONTO

Component
Rear Diesel Engine

Fluid
ESSO XD-3 EXTRA 15W40 (8 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006055	PN0004768	PN0003507
Sample Date		Client Info		02 May 2024	26 May 2023	18 May 2022
Machine Age	hrs	Client Info		43	29	17
Oil Age	hrs	Client Info		14	13	0
Filter Age	hrs	Client Info		14	13	0
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)	>100	9	10	15
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	1	2	2
Lead	ppm	ASTM D5185(m)	>40	<1	2	4
Copper	ppm	ASTM D5185(m)	>330	3	6	11
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

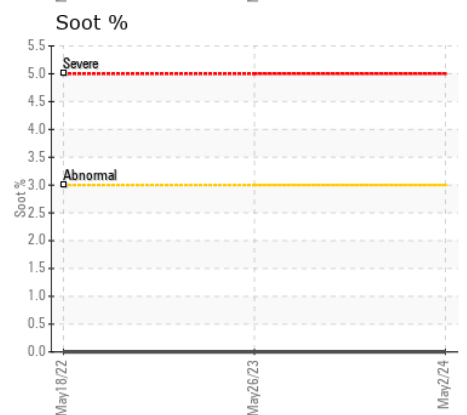
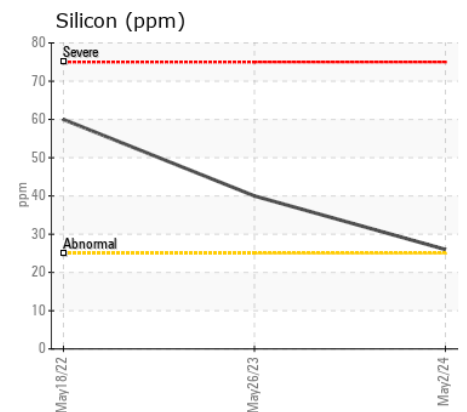
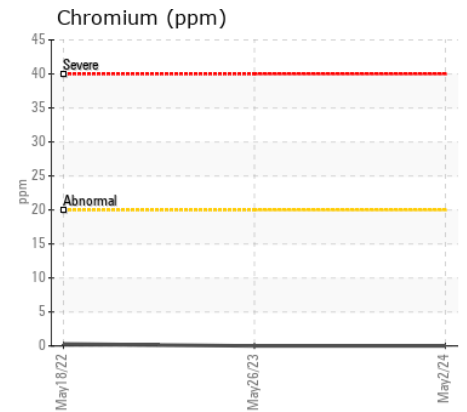
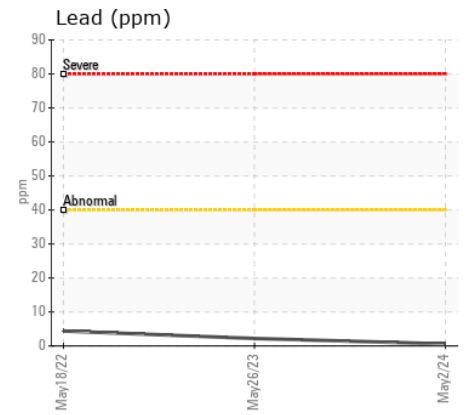
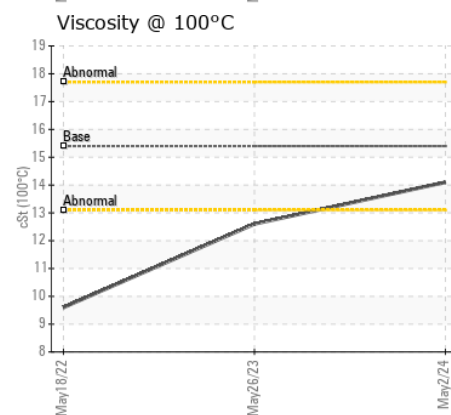
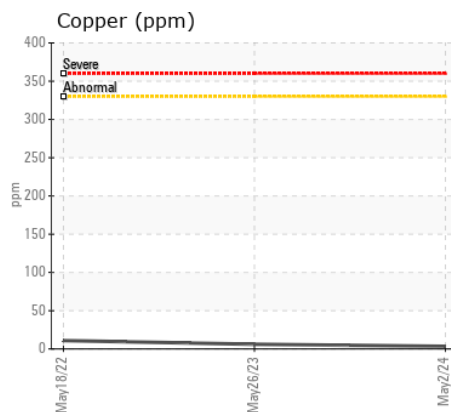
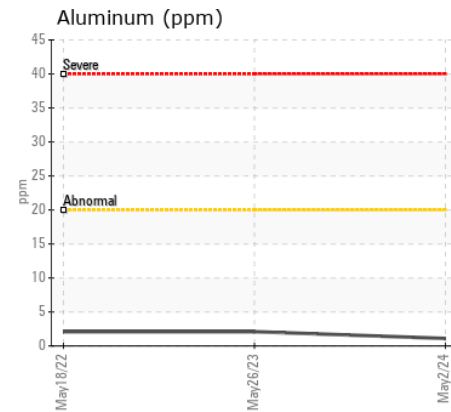
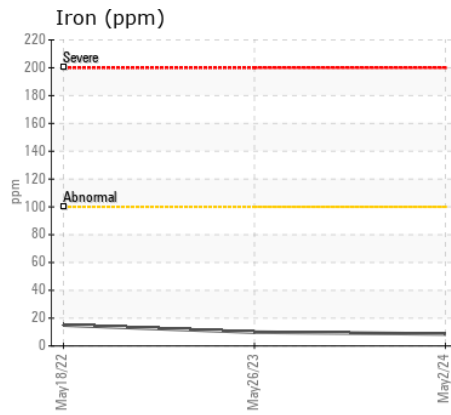
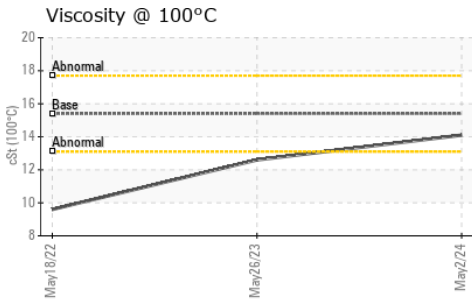
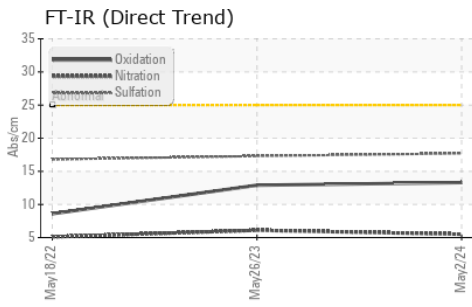
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	26	40	60
Potassium	ppm	ASTM D5185(m)	>20	<1	1	2
Fuel		WC Method	>5	<1.0	0.9	0.3
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	5.5	6.1	5.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.7	17.3	16.8
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	2	3	5
Boron	ppm	ASTM D5185(m)		15	50	89
Barium	ppm	ASTM D5185(m)		<1	0	<1
Molybdenum	ppm	ASTM D5185(m)		68	86	128
Manganese	ppm	ASTM D5185(m)		<1	<1	2
Magnesium	ppm	ASTM D5185(m)		848	471	370
Calcium	ppm	ASTM D5185(m)	3780	1173	1546	1082
Phosphorus	ppm	ASTM D5185(m)	1370	998	947	557
Zinc	ppm	ASTM D5185(m)	1500	1167	1005	635
Sulfur	ppm	ASTM D5185(m)	3800	2621	2574	1691
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.3	12.9	8.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.1	12.6	▲ 9.6



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006055 **Received** : 13 May 2024
Lab Number : 02634912 **Tested** : 13 May 2024
Unique Number : 5776065 **Diagnosed** : 13 May 2024 - 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.