



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
1001 BAY ST TORONTO, A PARKING LEVEL MTCC 876 CVM8219-3

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		PN0006151	PN0002208	PN0308259
Sample Date		Client Info		02 May 2024	31 Mar 2021	22 Apr 2019
Machine Age	mls	Client Info		348	336	0
Oil Age	mls	Client Info		0	6	0
Filter Age	mls	Client Info		0	6	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>120	1	3	2
Chromium	ppm	ASTM D5185(m)	>10	0	<1	0
Nickel	ppm	ASTM D5185(m)	>5	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>5	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	2	1
Lead	ppm	ASTM D5185(m)	>40	1	5	4
Copper	ppm	ASTM D5185(m)	>300	<1	1	<1
Tin	ppm	ASTM D5185(m)	>10	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	<1	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

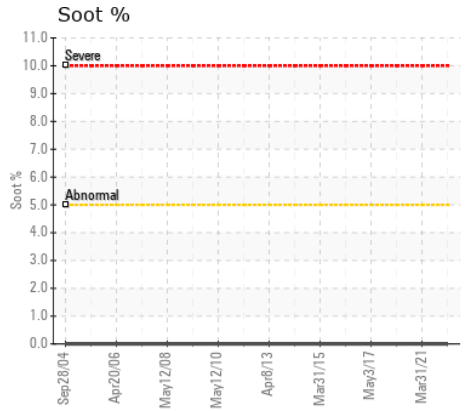
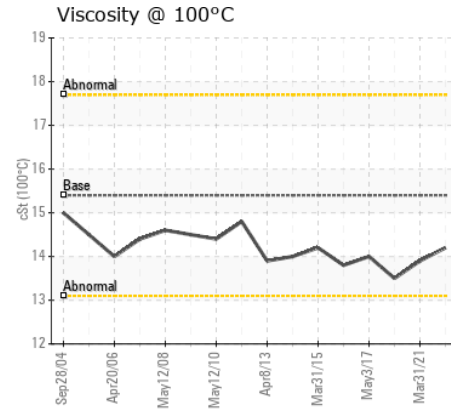
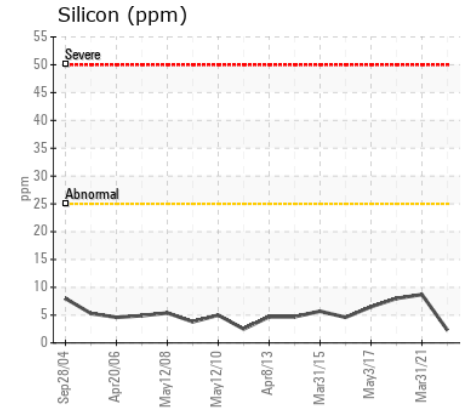
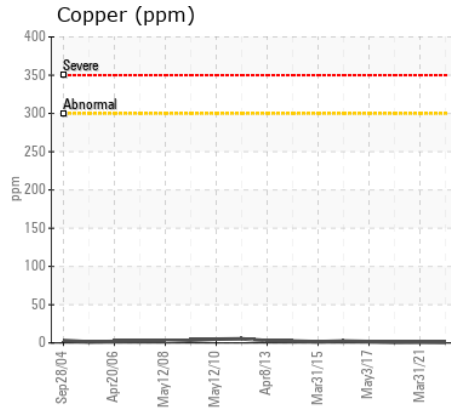
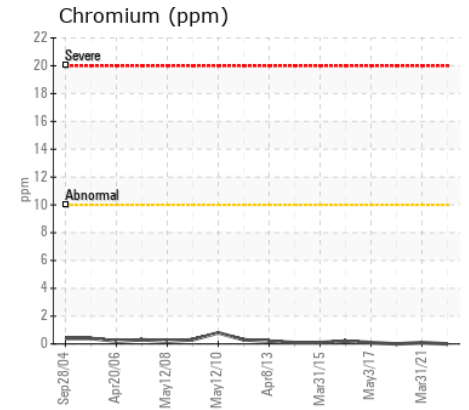
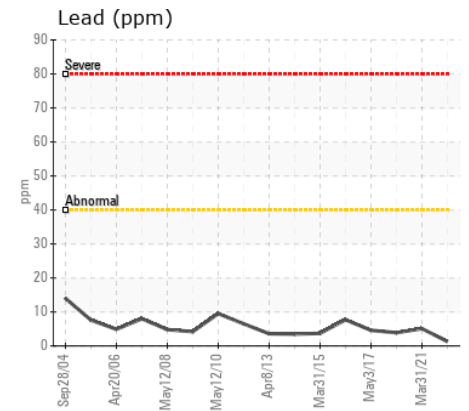
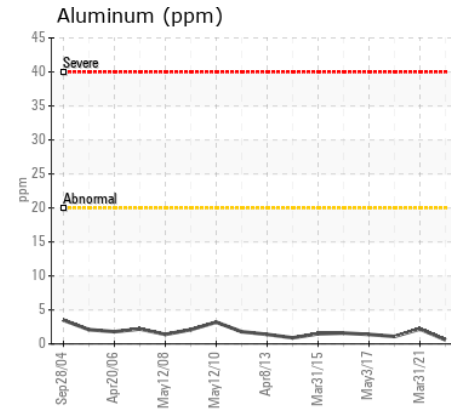
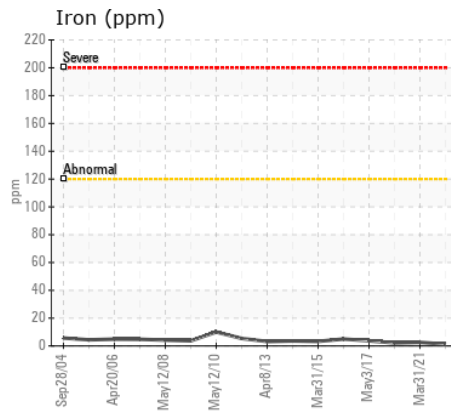
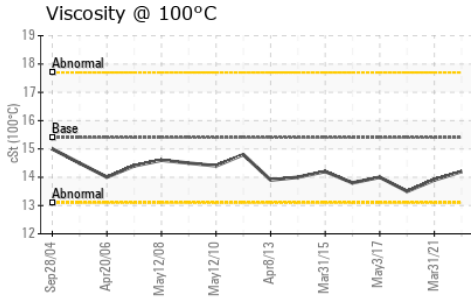
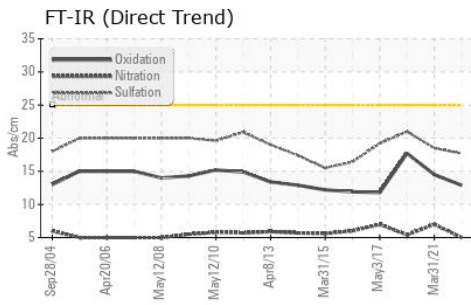
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	9	8
Potassium	ppm	ASTM D5185(m)	>20	<1	1	<1
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	▲ 0.026	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	5.0	7.0	5.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.7	18.5	21.0
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	VLITE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
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	2	4	3
Boron	ppm	ASTM D5185(m)		19	66	44
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		57	73	39
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		797	140	521
Calcium	ppm	ASTM D5185(m)	3780	1240	2005	1514
Phosphorus	ppm	ASTM D5185(m)	1370	990	946	792
Zinc	ppm	ASTM D5185(m)	1500	1155	1124	929
Sulfur	ppm	ASTM D5185(m)	3800	2703	3147	2332
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.9	14.5	17.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.2	13.9	13.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006151 **Received** : 21 May 2024
Lab Number : 02636569 **Tested** : 21 May 2024
Unique Number : 5785731 **Diagnosed** : 21 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Visual)

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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.