



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[85175]
 Machine Id
1260 DON MILLS RD NORTH YORK BELL CANADA 5362011333
 Component
Right Diesel Engine
 Fluid
ESSO XD-3 EXTRA 15W40 (120 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005875	PN0004701	PN0003478
Sample Date		Client Info		26 Mar 2024	06 Apr 2023	12 Apr 2022
Machine Age	hrs	Client Info		733	607	504
Oil Age	hrs	Client Info		125	104	348
Filter Age	hrs	Client Info		125	104	348
Oil Changed		Client Info		Changed	Not Chngd	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	MARGINAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	7	4	12
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<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	3	3	3
Lead	ppm	ASTM D5185(m)	>40	3	2	5
Copper	ppm	ASTM D5185(m)	>330	46	11	78
Tin	ppm	ASTM D5185(m)	>15	<1	<1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

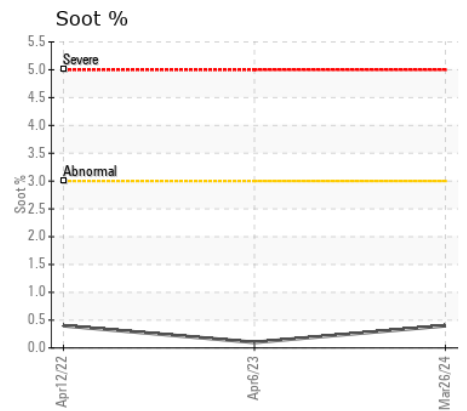
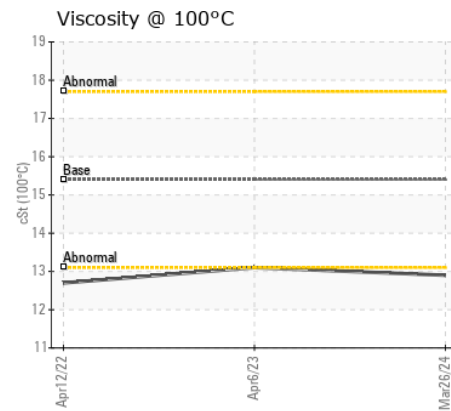
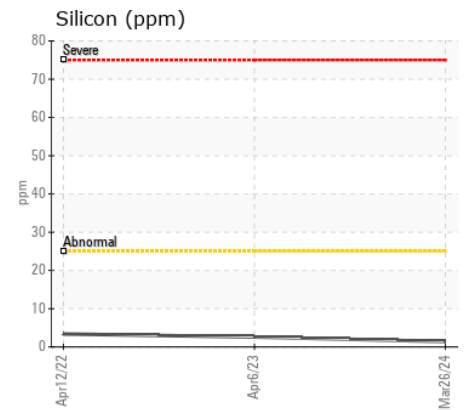
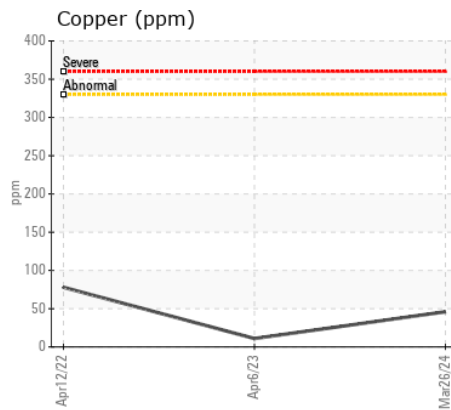
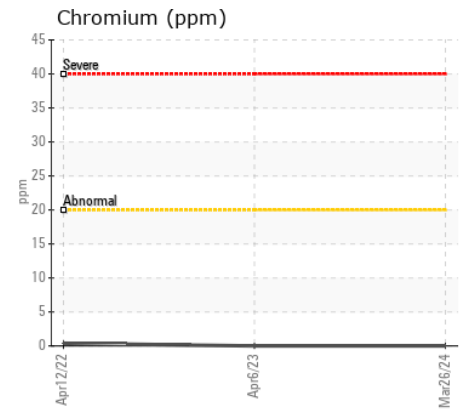
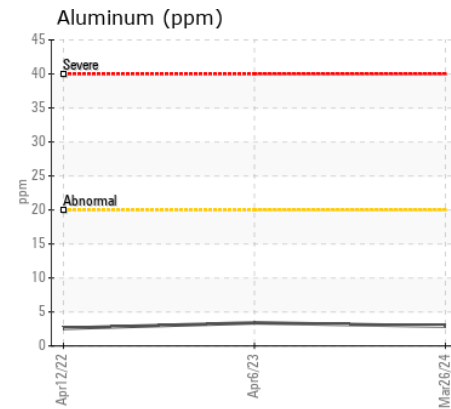
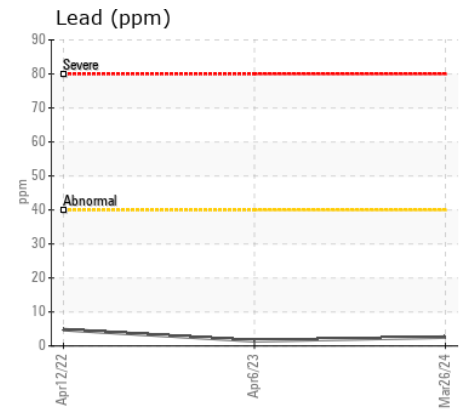
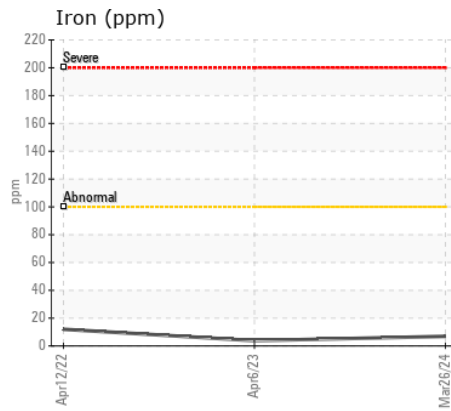
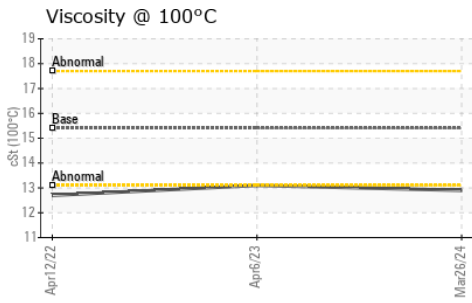
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	1	3	3
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel		WC Method	>5	<1.0	<1.0	▲ 3.3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.4	0.1	0.4
Nitration	Abs/cm	ASTM D7624*	>20	9.6	8.5	10.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.1	18.2	23.0
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	2	3
Boron	ppm	ASTM D5185(m)		22	47	24
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		87	89	76
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		176	49	147
Calcium	ppm	ASTM D5185(m)	3780	2135	2364	2199
Phosphorus	ppm	ASTM D5185(m)	1370	1061	1146	1081
Zinc	ppm	ASTM D5185(m)	1500	1234	1242	1245
Sulfur	ppm	ASTM D5185(m)	3800	3006	3360	3041
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.7	13.9	17.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	12.9	13.1	12.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005875 **Received** : 03 Apr 2024
Lab Number : 02626338 **Tested** : 03 Apr 2024
Unique Number : 5759470 **Diagnosed** : 03 Apr 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.