



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
20 HUNTER ST W, HAMILTON LOC#532161 BSMT #2 BELL CANADA 16VF13424

Component
Rear Diesel Engine

Fluid
ESSO XD-3 EXTRA SAE 40 (60 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005829	PN0004362	PN0003433
Sample Date		Client Info		20 Feb 2024	13 Mar 2023	30 Mar 2022
Machine Age	hrs	Client Info		810	794	766
Oil Age	hrs	Client Info		16	0	52
Filter Age	hrs	Client Info		16	0	52
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)	>125	3	4	4
Chromium	ppm	ASTM D5185(m)	>5	0	0	<1
Nickel	ppm	ASTM D5185(m)	>5	<1	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>10	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>12	1	<1	<1
Copper	ppm	ASTM D5185(m)	>45	1	1	1
Tin	ppm	ASTM D5185(m)	>20	<1	1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

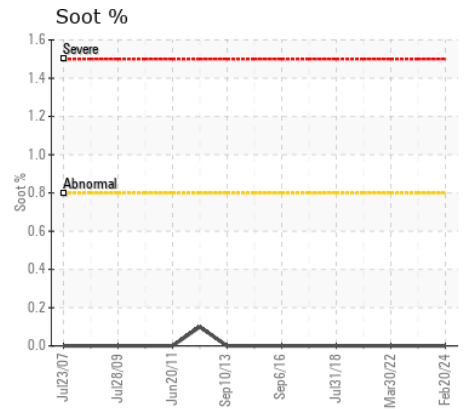
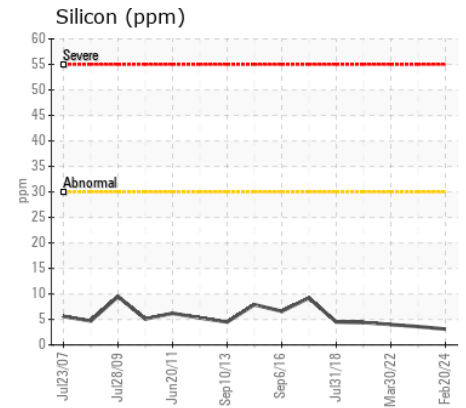
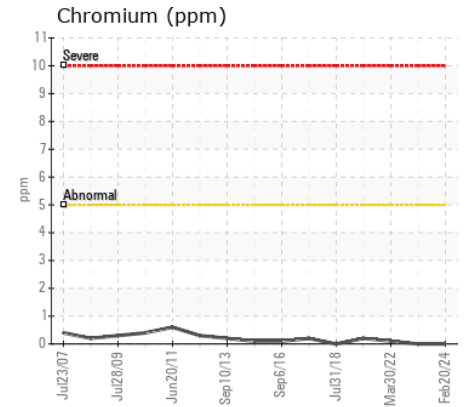
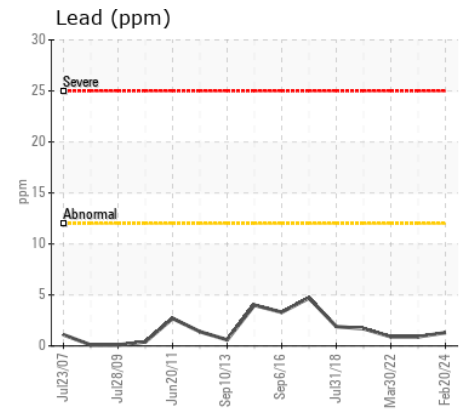
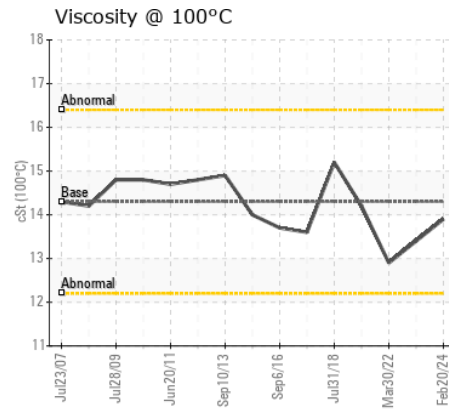
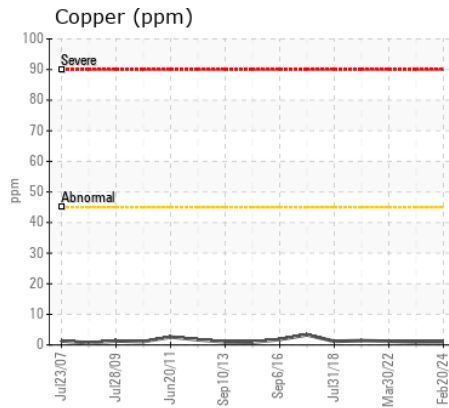
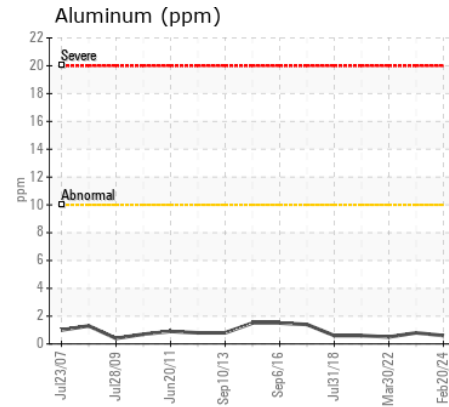
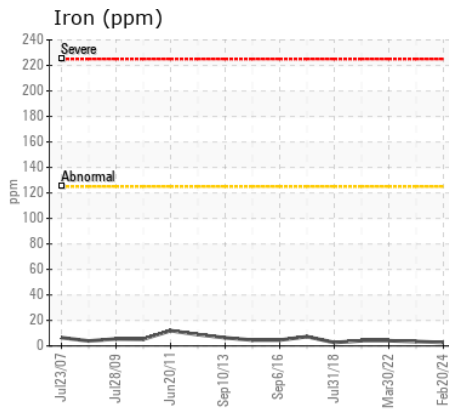
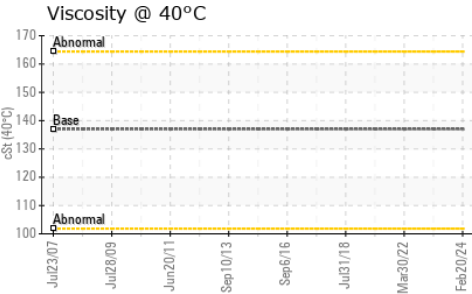
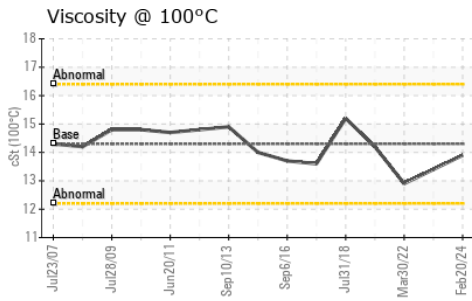
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	3	4	4
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>0.8	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	3.3	3.2	3.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	12.6	14.3	14.1
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)		2	3	8
Boron	ppm	ASTM D5185(m)		4	10	15
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		3	9	12
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		756	411	72
Calcium	ppm	ASTM D5185(m)	2550	1514	2609	2923
Phosphorus	ppm	ASTM D5185(m)	1000	998	897	775
Zinc	ppm	ASTM D5185(m)	1120	1113	910	843
Sulfur	ppm	ASTM D5185(m)		3334	4369	2587
Oxidation	Abs/.1mm	ASTM D7414*	>25	5.6	4.2	5.1
Visc @ 40°C	cSt	ASTM D7279(m)	137	126	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	13.9	13.4	12.9
Viscosity Index (VI)	Scale	ASTM D2270*	102	107	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005829 **Received** : 29 Feb 2024
Lab Number : 02618929 **Tested** : 29 Feb 2024
Unique Number : 5736039 **Diagnosed** : 29 Feb 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI)

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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.