



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
1262 GUELPH LINE BURLINGTON BASEMENT BELL CANADA 06R1026914

Component
Right Diesel Engine

Fluid
ESSO XD-3 EXTRA 15W40 (45 LTR)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005899	PN0003795	PN0002200
Sample Date		Client Info		26 Feb 2024	21 Jul 2022	26 Mar 2021
Machine Age	hrs	Client Info		7	379	338
Oil Age	hrs	Client Info		0	0	28
Filter Age	hrs	Client Info		0	0	28
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)	>100	2	4	3
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	1	3	2
Lead	ppm	ASTM D5185(m)	>40	<1	1	1
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	<1
White Metal	scalar	Visual*	NONE	VLITE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

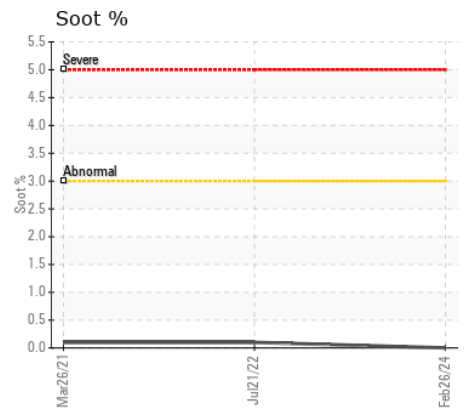
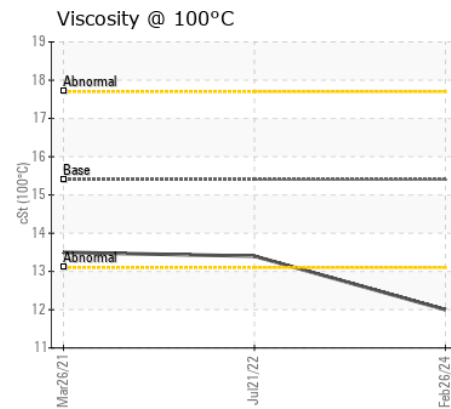
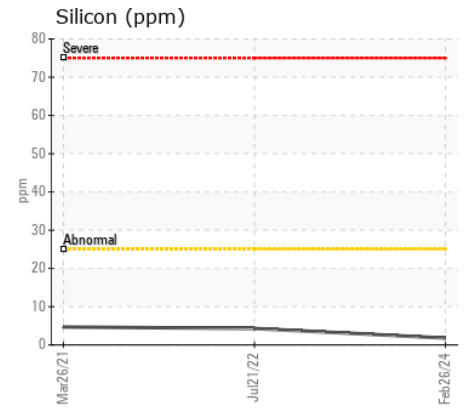
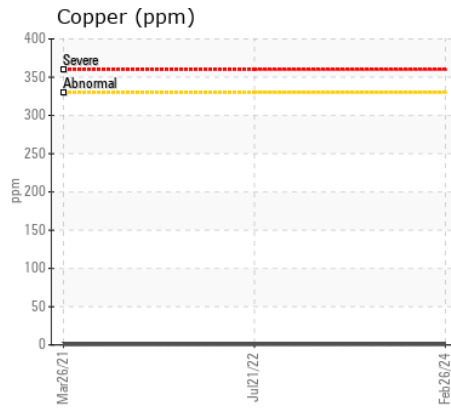
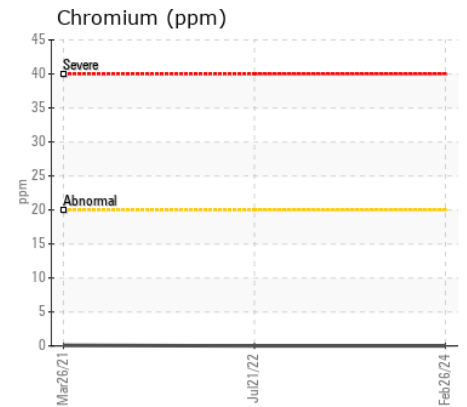
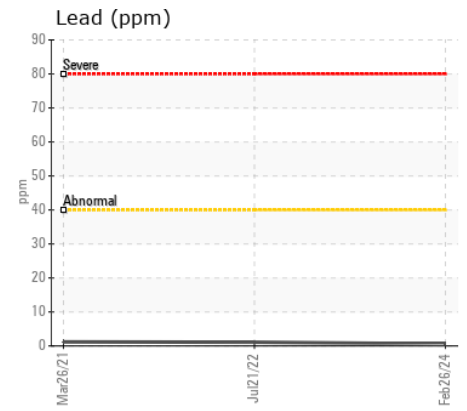
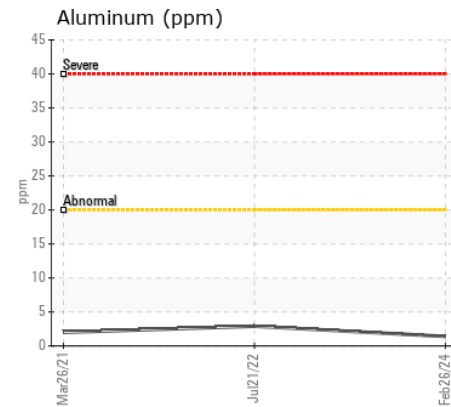
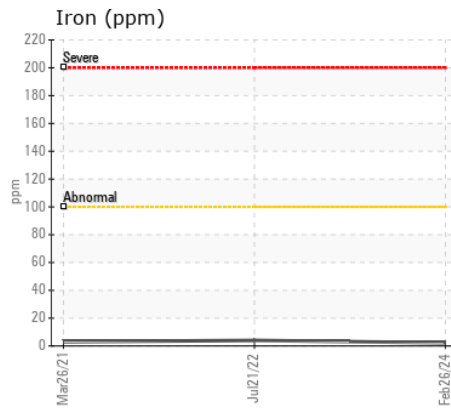
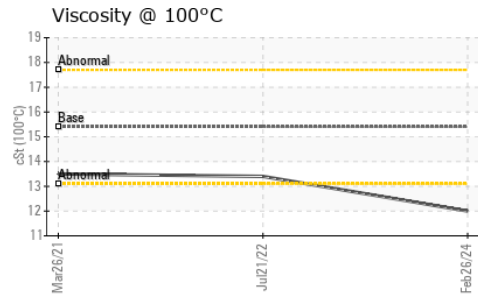
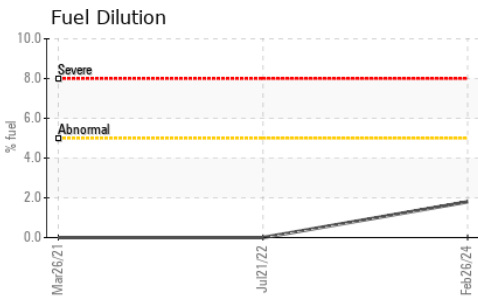
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	4	5
Potassium	ppm	ASTM D5185(m)	>20	1	<1	<1
Fuel	%	ASTM D7593*	>5	1.8	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	5.2	8.7	7.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	15.0	20.0	20.3
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
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	<1	3	3
Boron	ppm	ASTM D5185(m)		21	64	59
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		12	82	63
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		31	75	204
Calcium	ppm	ASTM D5185(m)	3780	2691	2249	1943
Phosphorus	ppm	ASTM D5185(m)	1370	995	995	895
Zinc	ppm	ASTM D5185(m)	1500	1067	1156	1066
Sulfur	ppm	ASTM D5185(m)	3800	3023	3269	2900
Oxidation	Abs/.1mm	ASTM D7414*	>25	8.2	15.1	16.5
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	12.0	13.4	13.5



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005899 **Received** : 07 Mar 2024
Lab Number : 02620470 **Tested** : 08 Mar 2024
Unique Number : 5737580 **Diagnosed** : 08 Mar 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, Visual)

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.

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