



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>MARGINAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**444 MILLARD AVENUE NEWMARKET BELL CANADA CAT002C27EDWB02121**

Component  
**Rear Diesel Engine**

Fluid  
**ESSO XD-3 EXTRA 15W40 (--- 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		<b>PN0005788</b>	PN0000275	PN106038
Sample Date		Client Info		<b>04 Mar 2024</b>	13 Aug 2019	01 Jan 2018
Machine Age	hrs	Client Info		<b>345</b>	228	192
Oil Age	hrs	Client Info		<b>21</b>	0	0
Filter Age	hrs	Client Info		<b>21</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Chngd	Not Chngd
Filter Changed		Client Info		<b>Cleaned</b>	Changed	Not Chngd
Sample Status				<b>MARGINAL</b>	ABNORMAL	ABNORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	<b>6</b>	4	4
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>2</b>	<1	1
Lead	ppm	ASTM D5185(m)	>40	<b>6</b>	4	4
Copper	ppm	ASTM D5185(m)	>330	<b>4</b>	3	2
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

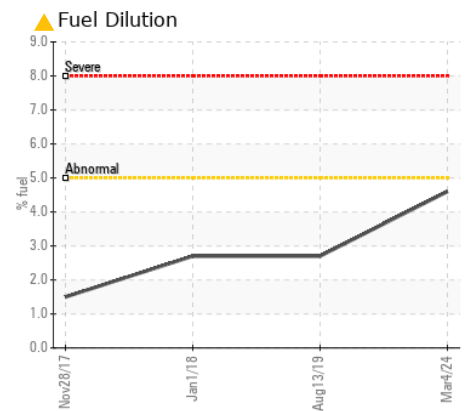
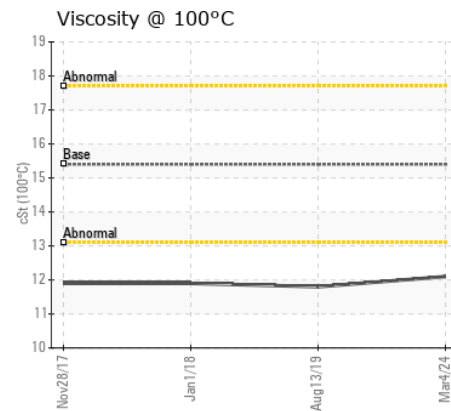
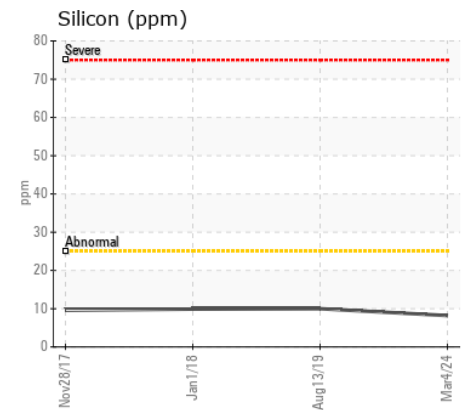
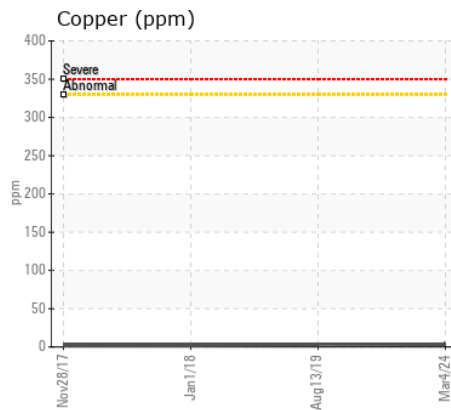
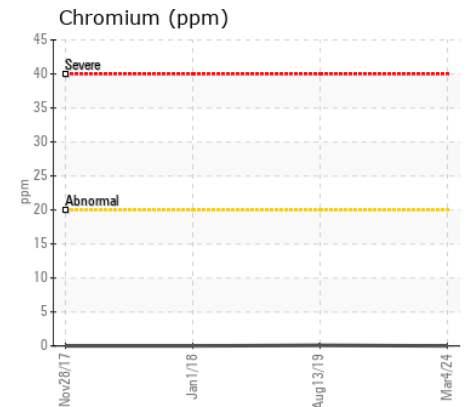
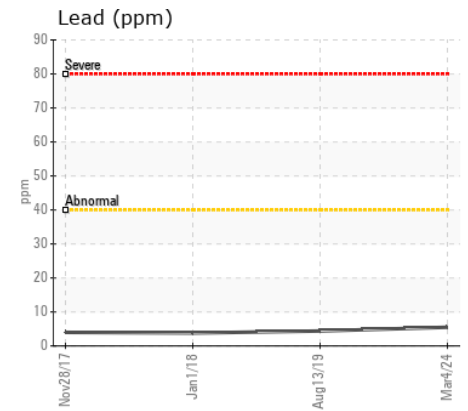
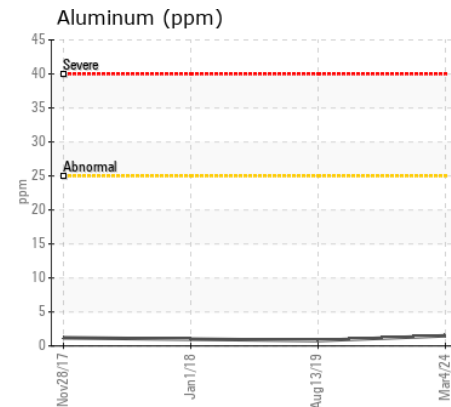
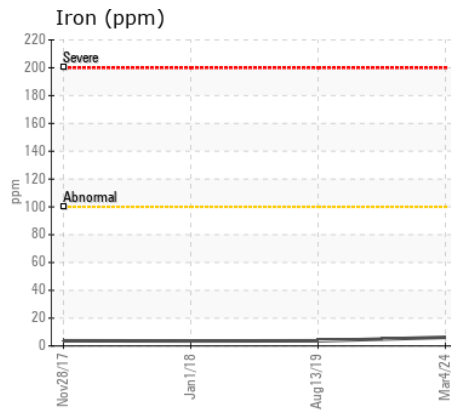
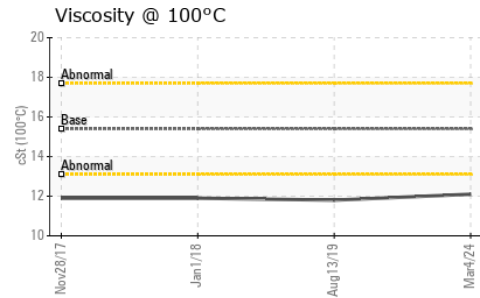
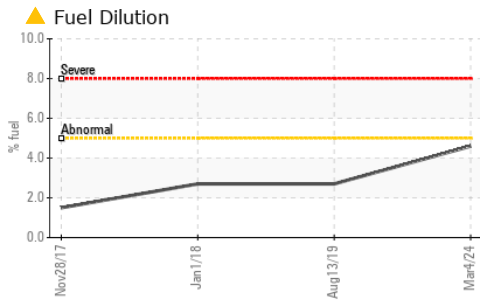
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>8</b>	10	10
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Fuel	%	ASTM D7593*	>5	<b>▲ 4.6</b>	▲ 2.7	▲ 2.7
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.5</b>	6.3	5.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.5</b>	18.2	16.2
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>192	<b>3</b>	3	3
Boron	ppm	ASTM D5185(m)		<b>22</b>	19	19
Barium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)		<b>53</b>	41	40
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>615</b>	712	695
Calcium	ppm	ASTM D5185(m)	3780	<b>1437</b>	1324	1317
Phosphorus	ppm	ASTM D5185(m)	1370	<b>999</b>	957	978
Zinc	ppm	ASTM D5185(m)	1500	<b>1118</b>	1140	1144
Sulfur	ppm	ASTM D5185(m)	3800	<b>2984</b>	2790	2814
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.9</b>	14.2	12.5
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>12.1</b>	▲ 11.8	▲ 11.9



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005788 **Received** : 07 Mar 2024  
**Lab Number** : 02620459 **Tested** : 08 Mar 2024  
**Unique Number** : 5737569 **Diagnosed** : 08 Mar 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel )

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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.