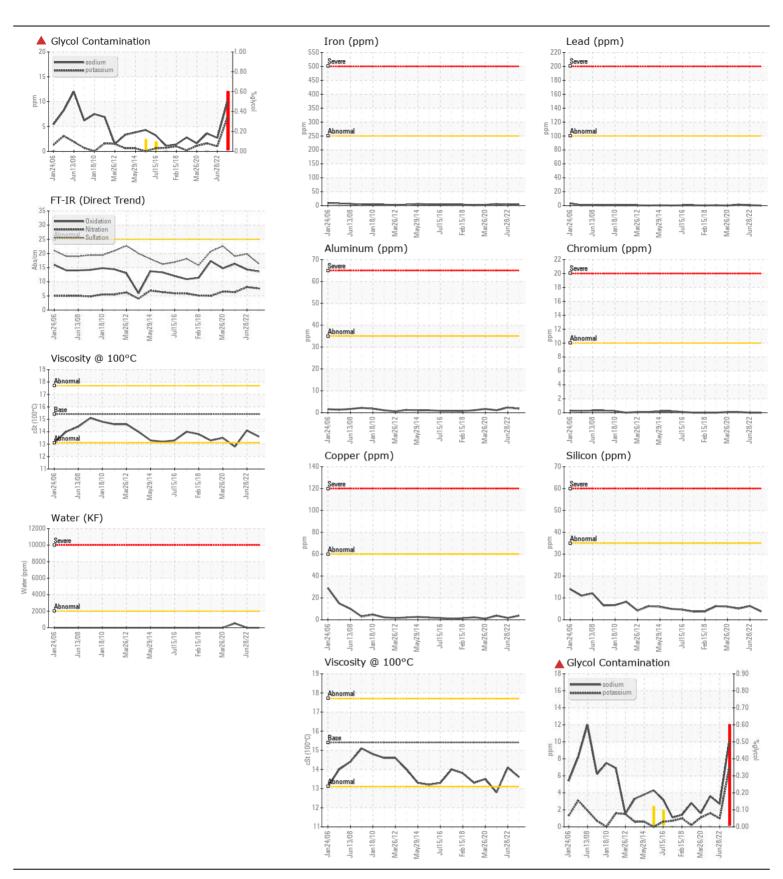
WEAR CONTAMINATION FLUID CONDITION

NORMAL SEVERE NORMAL

Machine Id

## 1786 PERCY STREET CASTLETON BELL CANADA #4502753

Left Diesel Engine							
ESSO XD-3 EXTRA 15W40 (8 LTR)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		PN0006103		PN0002116
	Sample Date		Client Info		25 Apr 2024	28 Jun 2022	03 Feb 2021
	Machine Age	hrs	Client Info		394	368	347
	Oil Age	hrs	Client Info		0	21	0
	Filter Age	hrs	Client Info		0	21	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed Sample Status		Client Info		Changed SEVERE	Changed NORMAL	Changed NORMAL
WEAR	Iron	ppm	ASTM D5185(m)	>250	3	4	5
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185(m)	>10	0	0	<1
	Nickel	ppm	ASTM D5185(m)	>5	0	0	<1
	Titanium	ppm	ASTM D5185(m)		0	<1	0
	Silver	ppm	ASTM D5185(m)	>3	0	<1	0
	Aluminum	ppm	ASTM D5185(m)	>35	2	2	1
	Lead	ppm	ASTM D5185(m)	>100	0	<1	1
	Copper	ppm	ASTM D5185(m)	>60	4	2	4
	Tin	ppm	ASTM D5185(m)	>5	0	0	<1
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	White Metal	scalar	Visual*	NONE	NONE		NONE
	Yellow Metal	scalar	Visual*	NONE	NONE		NONE
CONTAMINATION  Test for glycol is positive. There is a high concentration of glycol present in the oil. There is a moderate concentration of water present in the oil.	Silicon	ppm	ASTM D5185(m)	>35	4	6	5
	Potassium	ppm	ASTM D5185(m)	>20	<u>^</u> 7	1	2
	Fuel		WC Method	>5	<1.0	<1.0	1.3
	Water	%	ASTM D6304*	>0.2	NEG	NEG	0.052
	ppm Water	ppm	ASTM D6304*	>2000			527.9
	Glycol	%	ASTM D7922*		<b>△</b> 0.603	NEG	0.0
	Soot %	%	ASTM D7844*	>3	0	0	0
	Nitration	Abs/cm	ASTM D7624*	>20	7.6	8.1	6.3
	Sulfation	Abs/.1mm	ASTM D7415*	>30	16.3	19.8	19.0
	Silt	scalar	Visual*	NONE	NONE		NONE
	Debris	scalar	Visual*	NONE	NONE		VLITE
	Sand/Dirt		Visual*	NONE	NONE		NONE
	Appearance	scalar	Visual*	NORML	▲ WGOIL		NORML
	Odor		Visual*	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	Visual*	>0.2	<u> </u>	NEG	.2%
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)	>192	10	3	4
	Boron	ppm	ASTM D5185(m)		54	65	27
The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185(m)		<1	<1	1
	Molybdenum	ppm	ASTM D5185(m)		30	77	36
	Manganese	ppm	ASTM D5185(m)		<1	<1	<1
	Magnesium	ppm	ASTM D5185(m)	_	204	97	494
	Calcium	ppm	ASTM D5185(m)	3780	1947	2201	1691
	Phosphorus	ppm	ASTM D5185(m)	1370	966	979	823
	Zinc	ppm	ASTM D5185(m)	1500	1113	1128	1016
	Sulfur	ppm	ASTM D5185(m)	3800	3004	3253	2699
	0	Abs/.1mm	ASTM D7414*	<b>\25</b>	13.6	14.3	16.3
	Oxidation	AU5/. 1111111	ACTIVI D7414	/25	10.0	17.0	10.0





ISO 17025:2017
Accredited

 Laboratory
 : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

 Sample No.
 : PN0006103
 Received
 : 26 Apr 2024

 Lab Number
 : 02631492
 Tested
 : 26 Apr 2024

Accredited Laboratory Unique Number : 5772645 Diagnosed : 29 Apr 2024 - Kevin Marson

**Test Package**: MOB 1 (Additional Tests: Glycol, KF, 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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