



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
94 CHURCH ST MARKHAM BASEMENT BELL CANADA 16601002016

Component
Front Diesel Engine

Fluid
ESSO XD-3 EXTRA 15W40 (50 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		PN0005827	PN0003833	PN0002597
Sample Date		Client Info		22 Feb 2024	15 Jul 2022	30 Jul 2021
Machine Age	hrs	Client Info		277	251	209
Oil Age	hrs	Client Info		27	0	23
Filter Age	hrs	Client Info		27	0	23
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	1	1	1
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>4	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	2	2
Lead	ppm	ASTM D5185(m)	>40	<1	0	<1
Copper	ppm	ASTM D5185(m)	>330	1	1	1
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

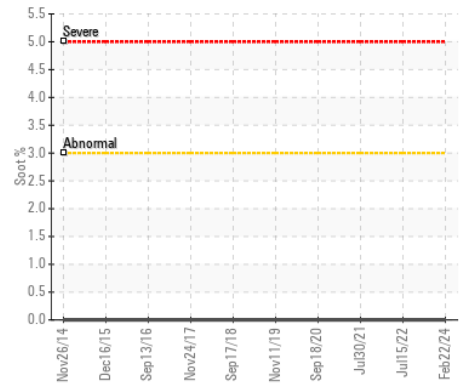
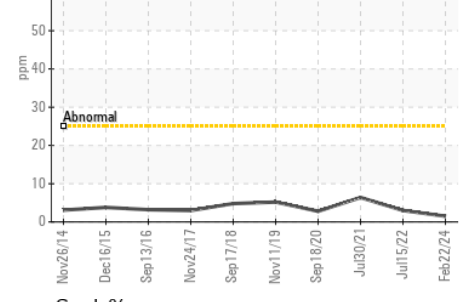
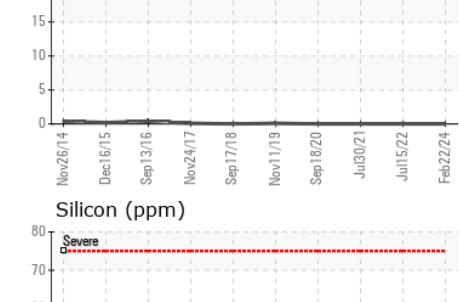
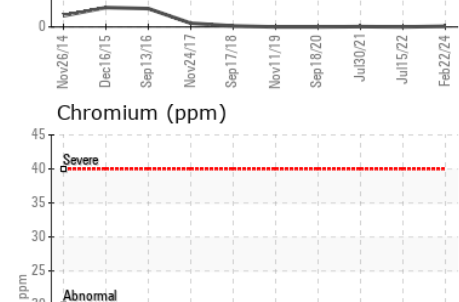
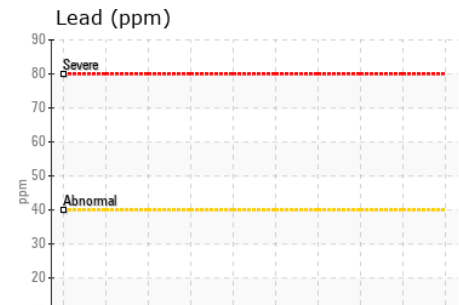
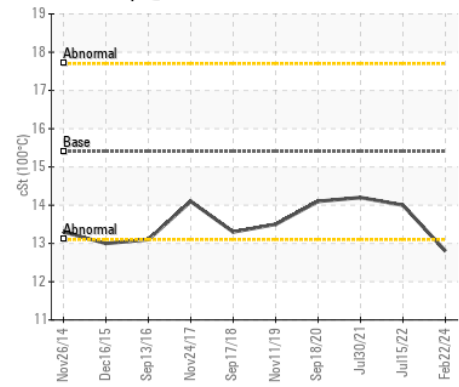
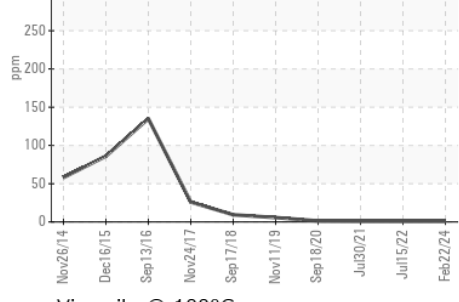
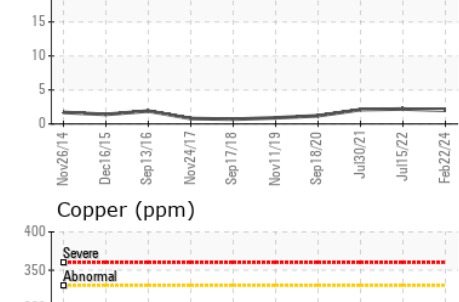
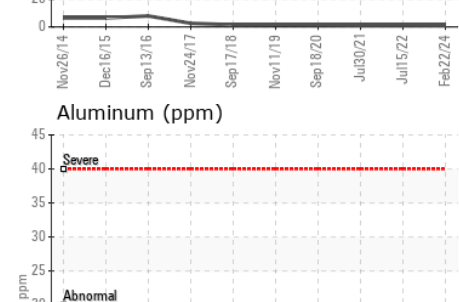
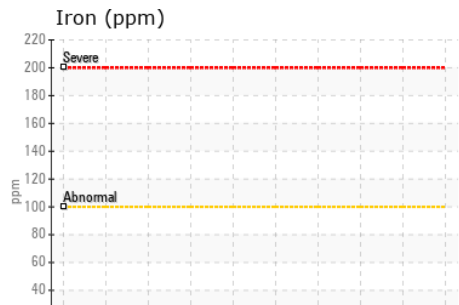
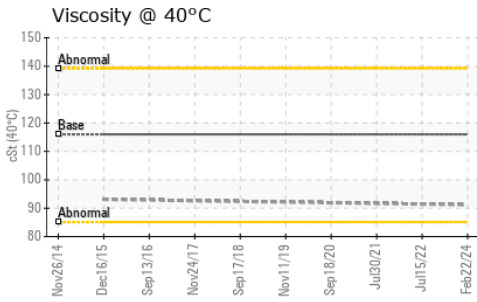
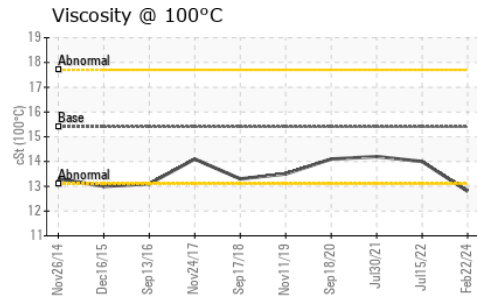
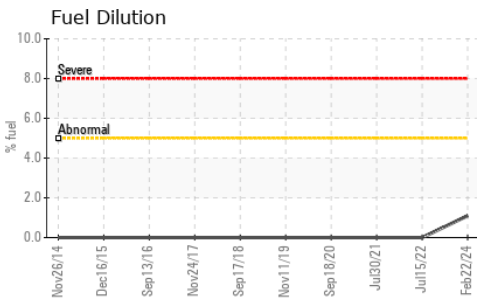
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	3	6
Potassium	ppm	ASTM D5185(m)	>20	1	<1	1
Fuel	%	ASTM D7593*	>5	1.1	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	4.4	4.3	7.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	13.9	13.5	17.7
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)		32	75	80
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		20	84	78
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		34	39	108
Calcium	ppm	ASTM D5185(m)	3780	2310	2226	2089
Phosphorus	ppm	ASTM D5185(m)	1370	1044	1010	1067
Zinc	ppm	ASTM D5185(m)	1500	1134	1170	1151
Sulfur	ppm	ASTM D5185(m)	3800	2978	3347	3297
Oxidation	Abs/.1mm	ASTM D7414*	>25	7.7	7.0	12.8
Visc @ 40°C	cSt	ASTM D7279(m)	116	91.2	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	12.8	14.0	14.2
Viscosity Index (VI)	Scale	ASTM D2270*	140	137	---	---



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005827
Lab Number : 02618932
Unique Number : 5736042
Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, VI)

Received : 29 Feb 2024
Tested : 01 Mar 2024
Diagnosed : 01 Mar 2024 - Kevin Marson

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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