



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
3700 BILLINGS COURT BURLINGTON OUTSIDE PARKING LOT BILLINGS COURT 962660

Component
Rear Diesel Engine

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

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005836	PN0306074	PN908282
Sample Date		Client Info		12 Feb 2024	03 Dec 2018	05 Nov 2013
Machine Age	hrs	Client Info		18	260	205
Oil Age	hrs	Client Info		6	37	6
Filter Age	hrs	Client Info		6	37	6
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Not 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	2	2
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	1	<1
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	2	<1	3
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	VLITE	---	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	---	NONE

CONTAMINATION

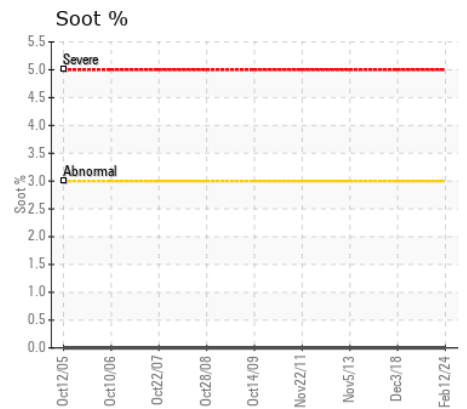
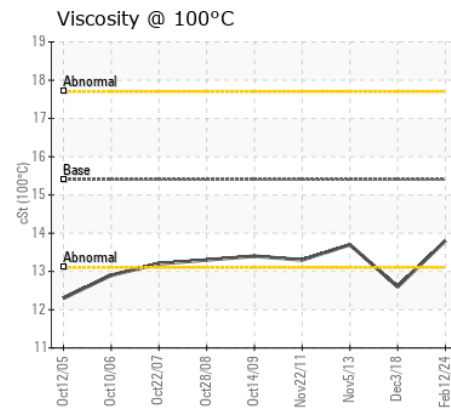
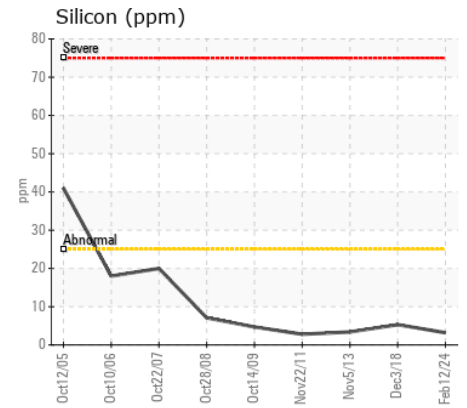
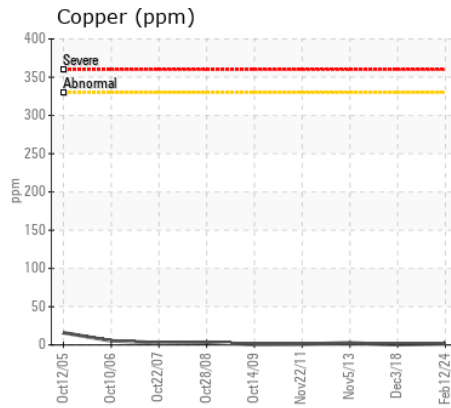
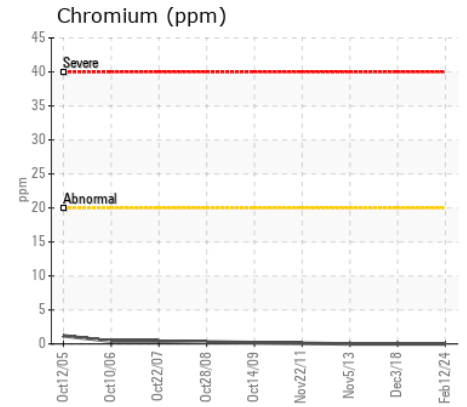
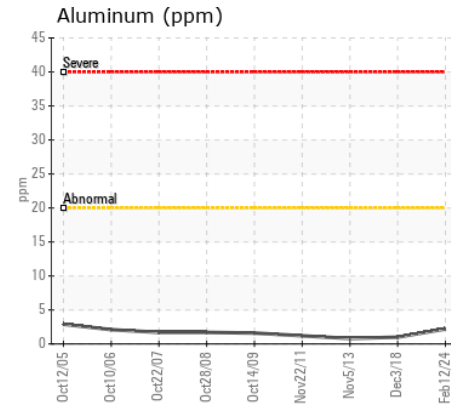
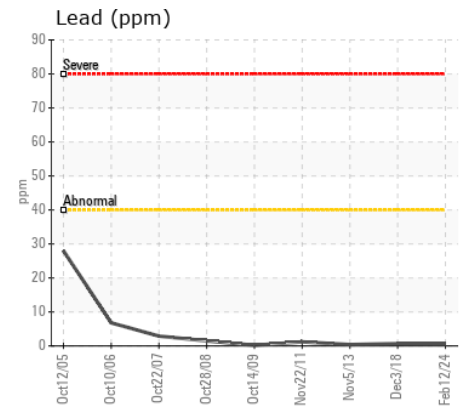
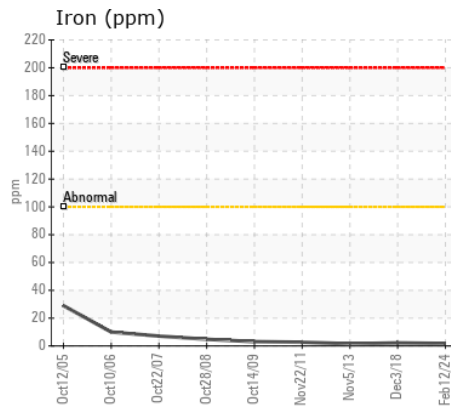
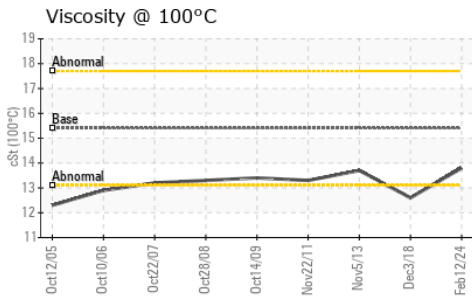
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	5	3
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel		WC Method	>5	<1.0	1.8	<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	6.5	5.2	5.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.0	21.0	19.0
Silt	scalar	Visual*	NONE	NONE	---	NONE
Debris	scalar	Visual*	NONE	NONE	---	LIGHT
Sand/Dirt	scalar	Visual*	NONE	NONE	---	NONE
Appearance	scalar	Visual*	NORML	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	2	3	1
Boron	ppm	ASTM D5185(m)		49	46	2
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		65	37	36
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		354	505	686
Calcium	ppm	ASTM D5185(m)	3780	1751	1487	1202
Phosphorus	ppm	ASTM D5185(m)	1370	992	761	945
Zinc	ppm	ASTM D5185(m)	1500	1097	876	1124
Sulfur	ppm	ASTM D5185(m)	3800	3088	2259	3089
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.7	19.2	14.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.8	12.6	13.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005836 **Received** : 15 Feb 2024
Lab Number : 02615898 **Tested** : 15 Feb 2024
Unique Number : 5733008 **Diagnosed** : 15 Feb 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Visual)

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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.