



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
319 PEEL ST NEW HAMBURG BELL CANADA 9537242
 Component
Diesel Engine
 Fluid
ESSO XD-3 EXTRA 15W40 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005849	PN0004798	---
Sample Date		Client Info		11 Apr 2024	30 May 2023	---
Machine Age	hrs	Client Info		29	20	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Chngd	Changed	---
Filter Changed		Client Info		Not Chngd	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>250	3	8	---
Chromium	ppm	ASTM D5185(m)	>10	0	0	---
Nickel	ppm	ASTM D5185(m)	>5	0	0	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	6	---
Aluminum	ppm	ASTM D5185(m)	>35	1	2	---
Lead	ppm	ASTM D5185(m)	>100	2	3	---
Copper	ppm	ASTM D5185(m)	>60	2	8	---
Tin	ppm	ASTM D5185(m)	>5	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

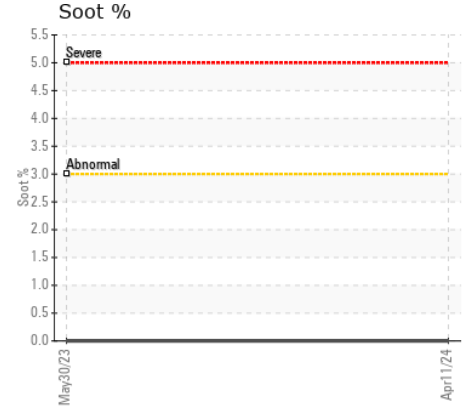
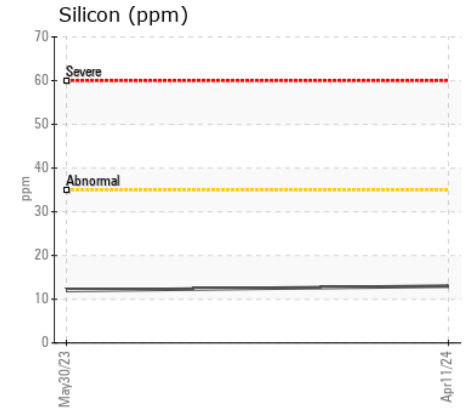
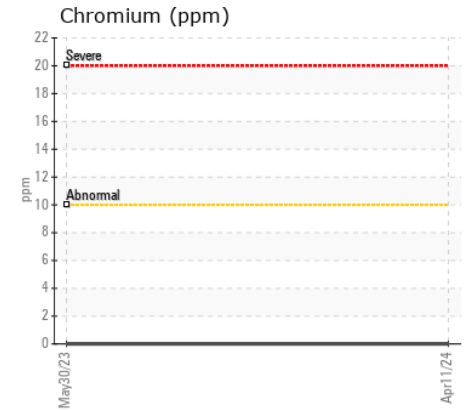
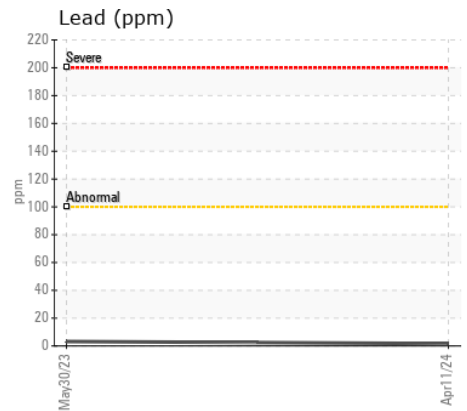
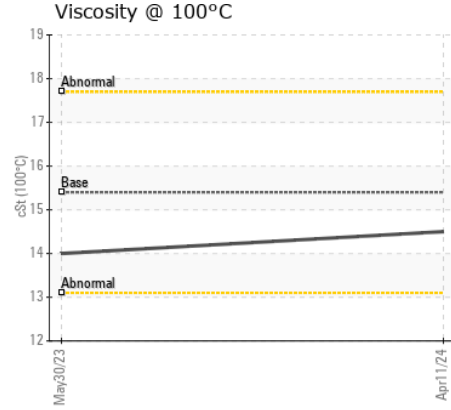
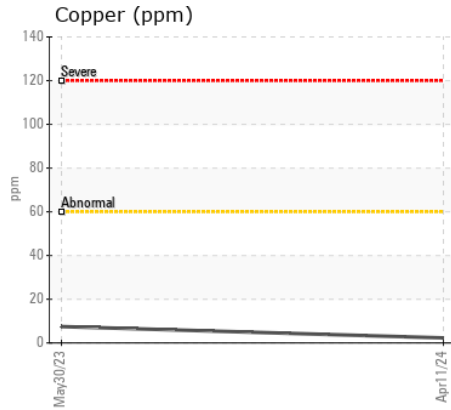
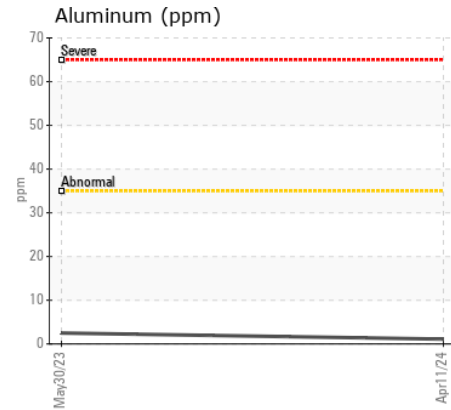
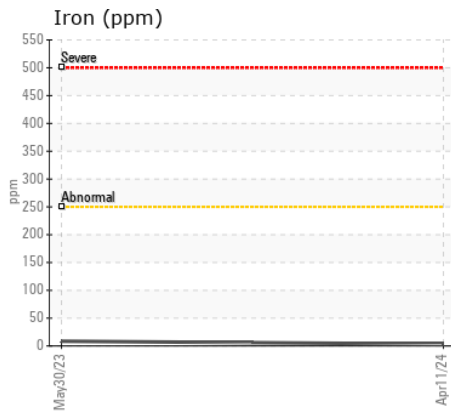
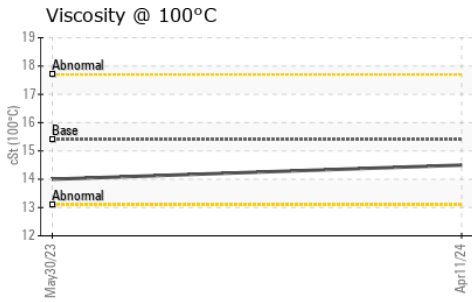
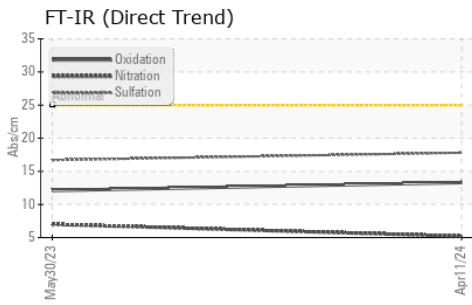
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	13	12	---
Potassium	ppm	ASTM D5185(m)	>20	<1	1	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	5.2	7.0	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.8	16.7	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	VLITE	---	---
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	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>192	2	3	---
Boron	ppm	ASTM D5185(m)		19	65	---
Barium	ppm	ASTM D5185(m)		<1	0	---
Molybdenum	ppm	ASTM D5185(m)		45	11	---
Manganese	ppm	ASTM D5185(m)		<1	1	---
Magnesium	ppm	ASTM D5185(m)		762	150	---
Calcium	ppm	ASTM D5185(m)	3780	1300	2141	---
Phosphorus	ppm	ASTM D5185(m)	1370	1017	1130	---
Zinc	ppm	ASTM D5185(m)	1500	1177	1183	---
Sulfur	ppm	ASTM D5185(m)	3800	2828	3592	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.3	12.1	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.5	14.0	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005849 **Received** : 17 Apr 2024
Lab Number : 02629497 **Tested** : 17 Apr 2024
Unique Number : 5762629 **Diagnosed** : 17 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: 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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