



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

Area  
**[85751]**  
 Machine Id  
**21 FIRST AVE, ORANGEVILLE BELL CANADA 06VF174849**

Component  
**Right Diesel Engine**  
 Fluid  
**ESSO XD-3 EXTRA SAE 40 (22 LTR)**

**RECOMMENDATION**

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0006033</b>	PN0004273	PN0002917
Sample Date		Client Info		<b>18 Apr 2024</b>	06 Dec 2022	20 Oct 2021
Machine Age	hrs	Client Info		<b>789</b>	762	734
Oil Age	hrs	Client Info		<b>27</b>	29	0
Filter Age	hrs	Client Info		<b>27</b>	29	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>MARGINAL</b>	NORMAL	NORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>200	<b>5</b>	6	7
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>30	<b>1</b>	3	3
Copper	ppm	ASTM D5185(m)	>30	<b>2</b>	1	2
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	2	2
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

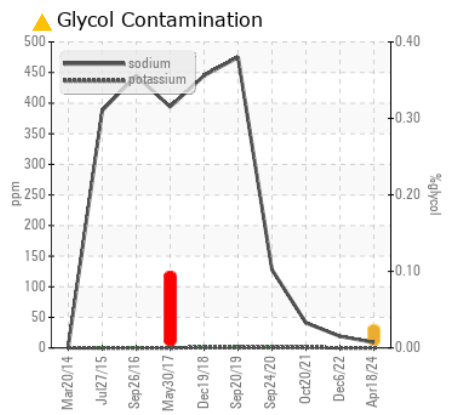
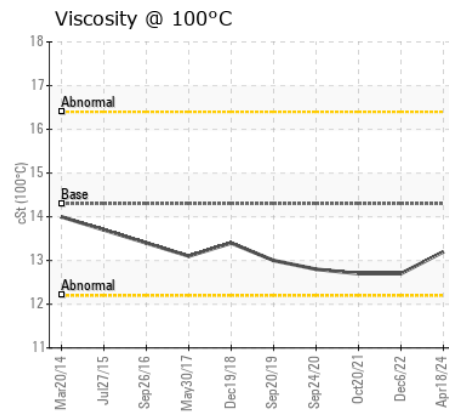
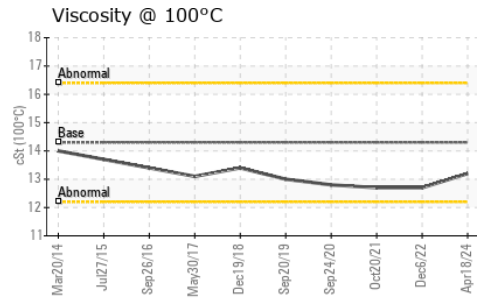
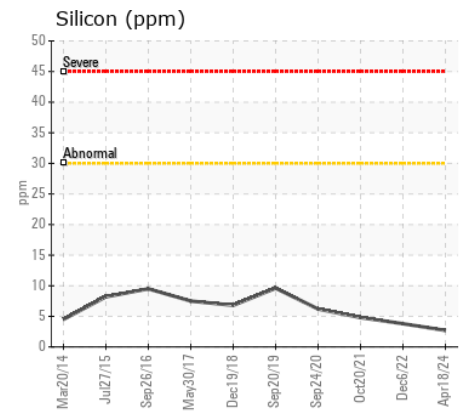
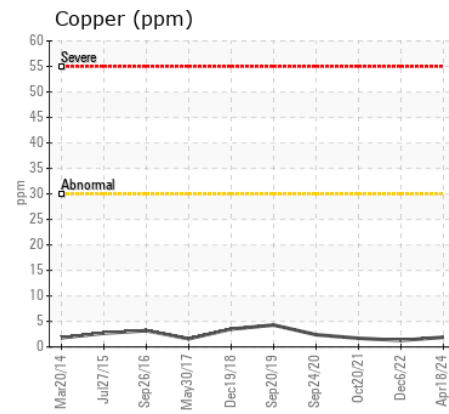
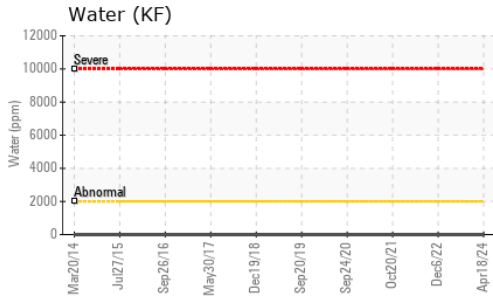
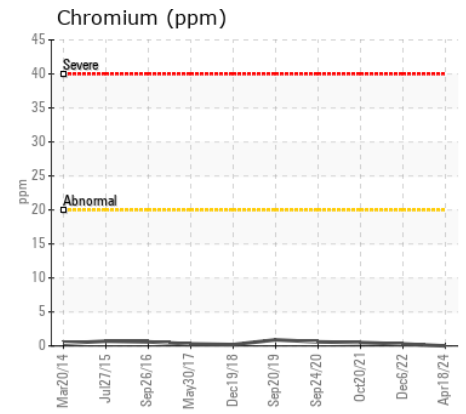
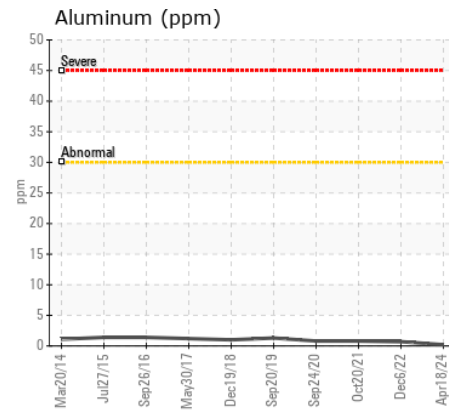
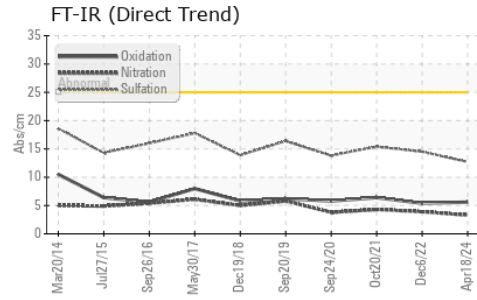
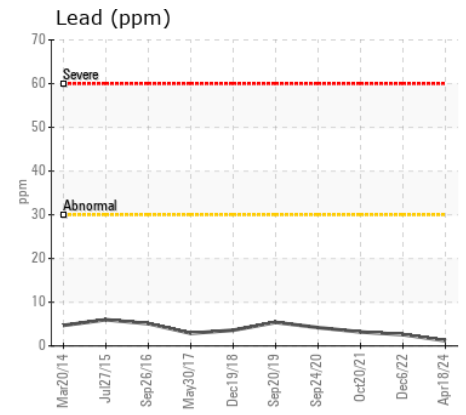
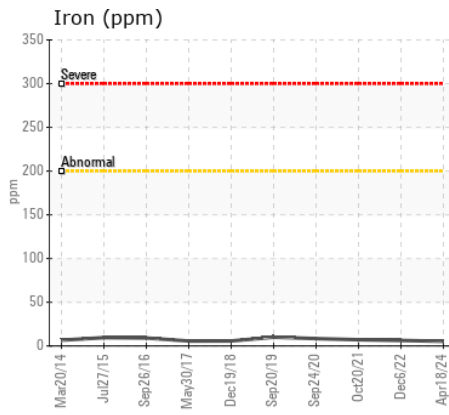
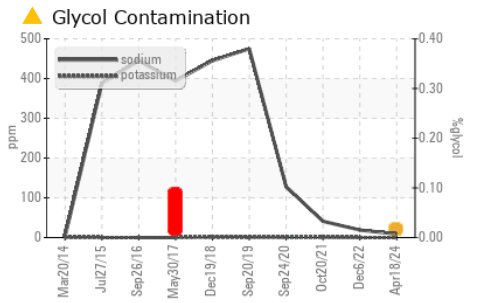
Test for glycol is positive. There is a light concentration of glycol present in the oil. The water content is negligible.

Silicon	ppm	ASTM D5185(m)	>30	<b>3</b>	4	5
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	1
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water	%	ASTM D6304*	>0.2	<b>0.00</b>	---	---
ppm Water	ppm	ASTM D6304*	>2000	<b>0</b>	---	---
Glycol	%	ASTM D7922*		<b>▲ 0.03</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>3.3</b>	3.9	4.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>12.7</b>	14.5	15.4
Emulsified Water	scalar	Visual*	>0.2	<b>.2%</b>	NEG	NEG

**FLUID CONDITION**

The condition of the oil is acceptable for the time in service. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)		<b>9</b>	19	41
Boron	ppm	ASTM D5185(m)		<b>4</b>	9	16
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>2</b>	10	17
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>710</b>	27	38
Calcium	ppm	ASTM D5185(m)	2550	<b>1583</b>	3733	3026
Phosphorus	ppm	ASTM D5185(m)	1000	<b>964</b>	753	821
Zinc	ppm	ASTM D5185(m)	1120	<b>1096</b>	765	888
Sulfur	ppm	ASTM D5185(m)		<b>2506</b>	2497	2767
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>5.6</b>	5.4	6.4
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	<b>13.2</b>	12.7	12.7



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006033  
**Lab Number** : 02631524  
**Unique Number** : 5772677  
**Test Package** : MOB 1 ( Additional Tests: Glycol, KF )

**Received** : 26 Apr 2024  
**Tested** : 30 Apr 2024  
**Diagnosed** : 30 Apr 2024 - Wes Davis

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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