



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

Machine Id  
**100 WORLD DR MISSISSAUGA VIKING FIRE PROTECTION INC VIKING FIRE PROTECTION INC**  
 Component  
**Right Diesel Engine**  
 Fluid  
**ESSO XD-3 EXTRA 15W40 (20 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0006062</b>	PN0005010	PN0003734
Sample Date		Client Info		<b>23 May 2024</b>	15 Jun 2023	28 Jun 2022
Machine Age	hrs	Client Info		<b>509</b>	485	0
Oil Age	hrs	Client Info		<b>0</b>	25	0
Filter Age	hrs	Client Info		<b>0</b>	25	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>51	<b>2</b>	2	2
Chromium	ppm	ASTM D5185(m)	>11	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>31	<b>&lt;1</b>	2	3
Lead	ppm	ASTM D5185(m)	>26	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>26	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	VLITE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

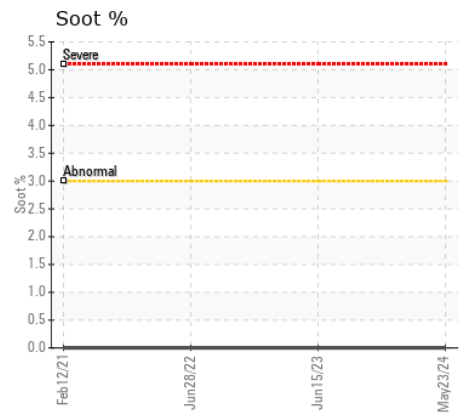
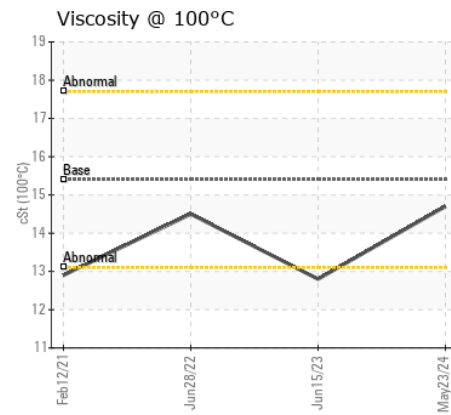
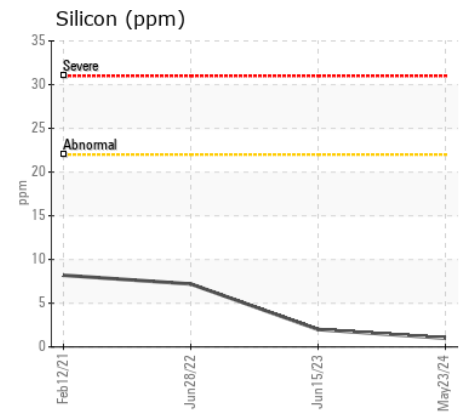
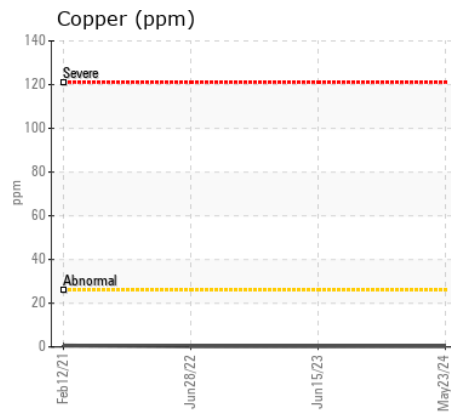
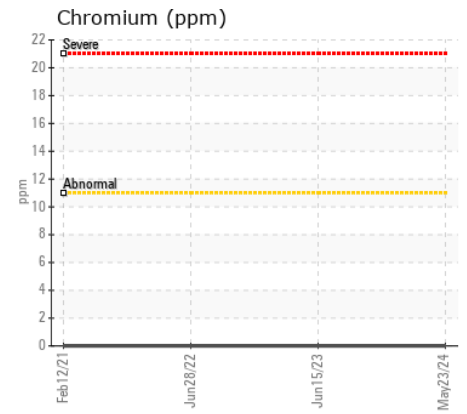
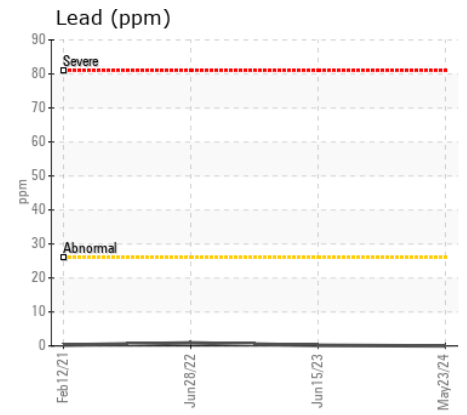
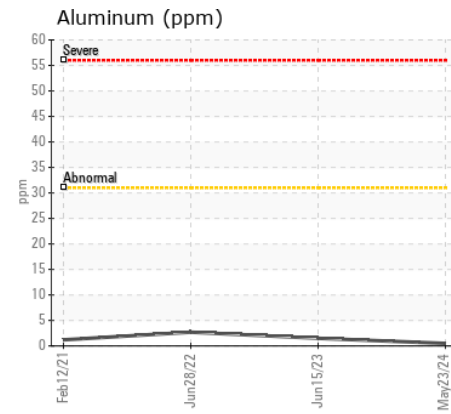
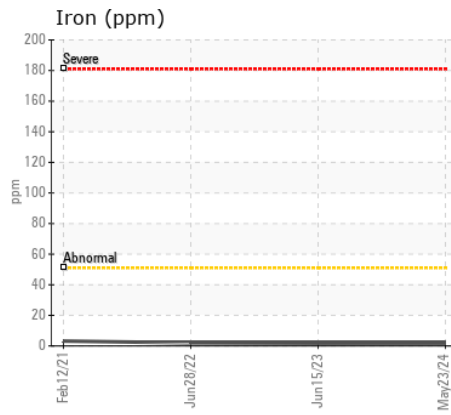
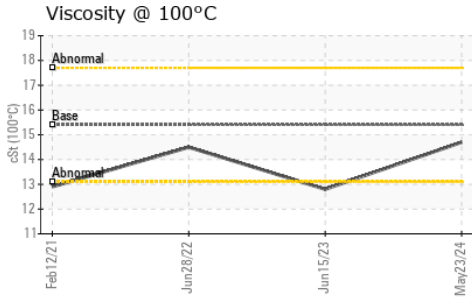
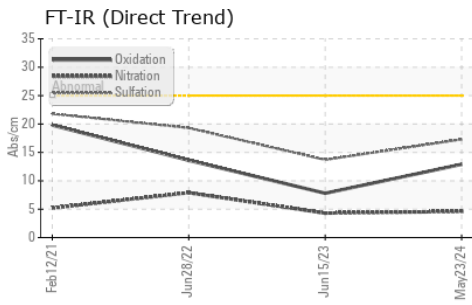
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	<b>1</b>	2	7
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	1	<1
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	0.8	<1.0
Water		WC Method	>0.21	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>4.6</b>	4.3	7.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.3</b>	13.7	19.3
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.21	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)	>192	<b>2</b>	<1	3
Boron	ppm	ASTM D5185(m)		<b>3</b>	29	74
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>49</b>	7	84
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>820</b>	29	44
Calcium	ppm	ASTM D5185(m)	3780	<b>1243</b>	2523	2257
Phosphorus	ppm	ASTM D5185(m)	1370	<b>976</b>	1144	994
Zinc	ppm	ASTM D5185(m)	1500	<b>1140</b>	1232	1152
Sulfur	ppm	ASTM D5185(m)	3800	<b>2656</b>	2930	3300
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>12.9</b>	7.8	13.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.7</b>	12.8	14.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006062 **Received** : 04 Jun 2024  
**Lab Number** : 02639585 **Tested** : 05 Jun 2024  
**Unique Number** : 5788747 **Diagnosed** : 05 Jun 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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