



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Area

[86445]

Machine Id

6370 BELGRAVE RD MISSISSAUGA VIKING FIRE VIKING FIRE

Component

Right Diesel Engine

Fluid

ESSO XD-3 EXTRA 15W40 (35 LTR)

RECOMMENDATION

No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006119	---	---
Sample Date		Client Info		22 May 2024	---	---
Machine Age	hrs	Client Info		18	---	---
Oil Age	hrs	Client Info		18	---	---
Filter Age	hrs	Client Info		18	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Not Changd	---	---
Sample Status				ABNORMAL	---	---

WEAR

Metal levels are typical for a components first oil change.

Iron	ppm	ASTM D5185(m)	>51	7	---	---
Chromium	ppm	ASTM D5185(m)	>11	0	---	---
Nickel	ppm	ASTM D5185(m)	>5	0	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)	>3	0	---	---
Aluminum	ppm	ASTM D5185(m)	>31	3	---	---
Lead	ppm	ASTM D5185(m)	>26	2	---	---
Copper	ppm	ASTM D5185(m)	>26	36	---	---
Tin	ppm	ASTM D5185(m)	>4	<1	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	VLITE	---	---

CONTAMINATION

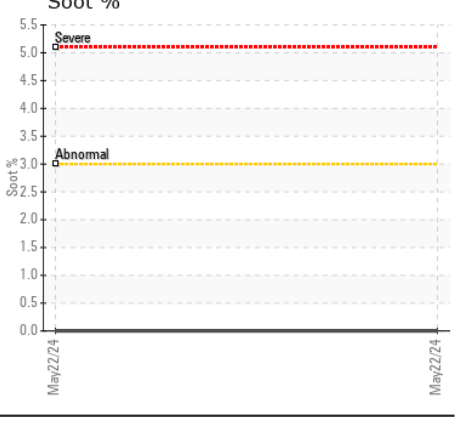
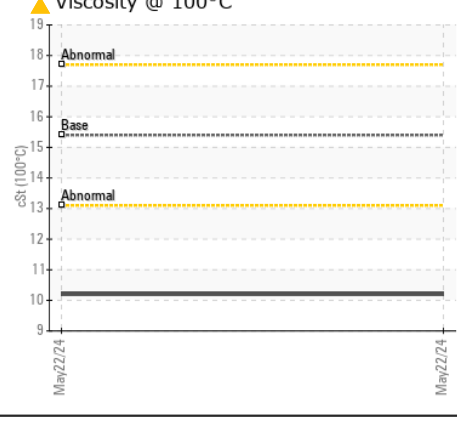
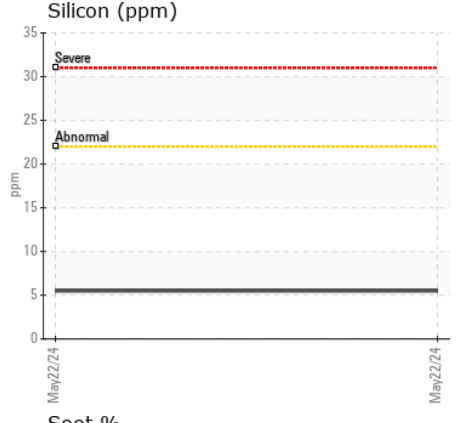
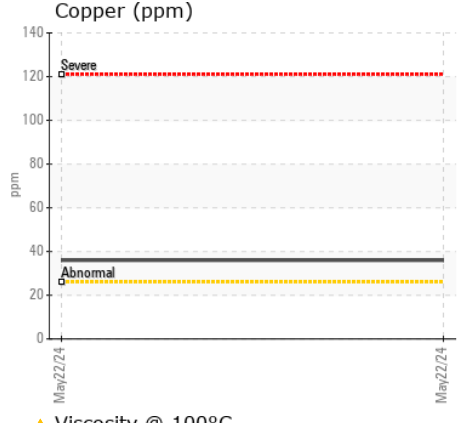
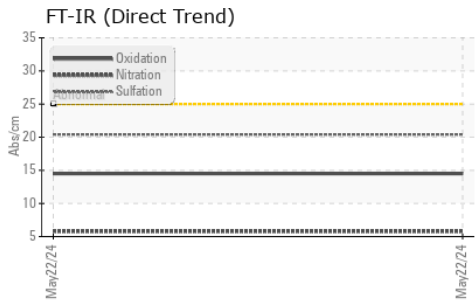
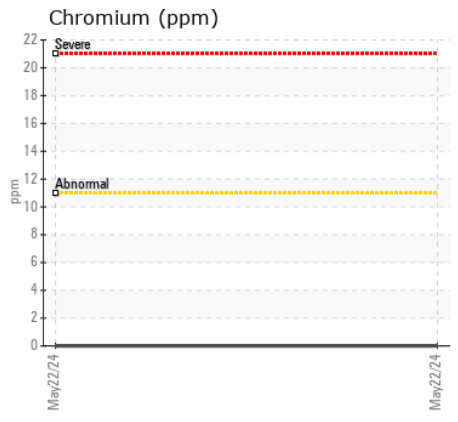
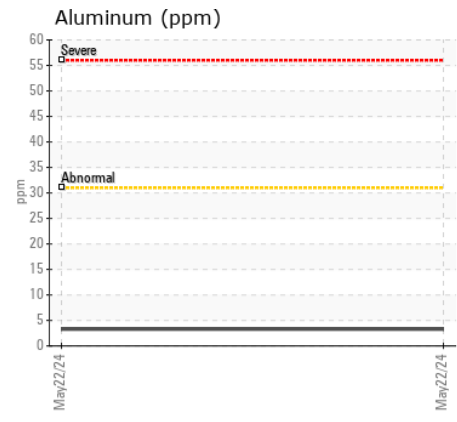
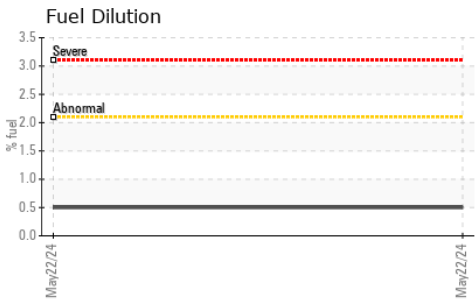
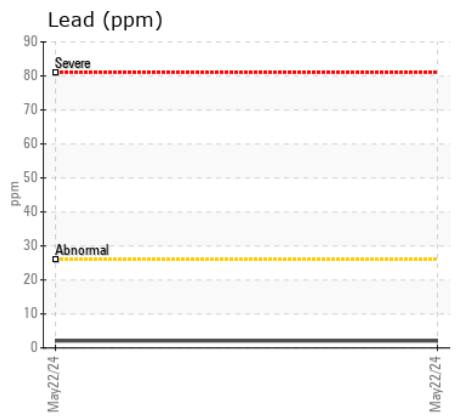
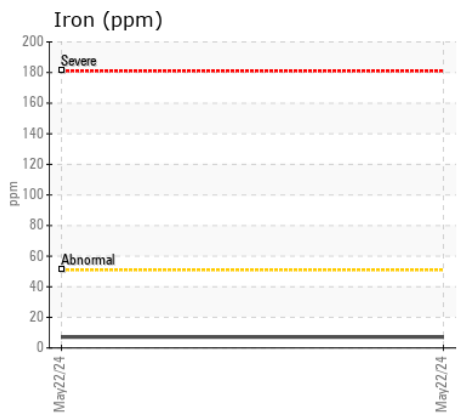
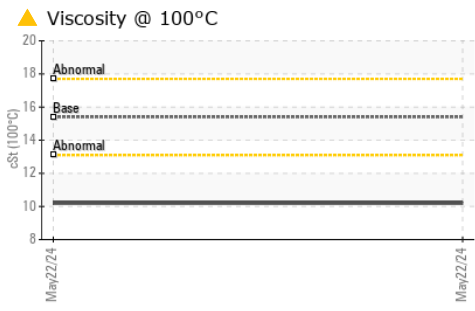
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	6	---	---
Potassium	ppm	ASTM D5185(m)	>20	8	---	---
Fuel	%	ASTM D7593*	>2.1	0.5	---	---
Water		WC Method	>0.21	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>3	0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	5.8	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.4	---	---
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	---	---
Emulsified Water	scalar	Visual*	>0.21	NEG	---	---

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>192	4	---	---
Boron	ppm	ASTM D5185(m)		242	---	---
Barium	ppm	ASTM D5185(m)		1	---	---
Molybdenum	ppm	ASTM D5185(m)		242	---	---
Manganese	ppm	ASTM D5185(m)		<1	---	---
Magnesium	ppm	ASTM D5185(m)		797	---	---
Calcium	ppm	ASTM D5185(m)	3780	1362	---	---
Phosphorus	ppm	ASTM D5185(m)	1370	856	---	---
Zinc	ppm	ASTM D5185(m)	1500	986	---	---
Sulfur	ppm	ASTM D5185(m)	3800	2503	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.5	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	▲ 10.2	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006119 **Received** : 24 May 2024
Lab Number : 02637383 **Tested** : 27 May 2024
Unique Number : 5786545 **Diagnosed** : 27 May 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel, 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.