



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

Area  
**[86623]**  
 Machine Id  
**215 WICSTEED AVE, TORONTO TREMCO LTD 08G0062509**

Component  
**Right Diesel Engine**  
 Fluid  
**ESSO XD-3 EXTRA SAE 30 (20 LTR)**

**RECOMMENDATION**

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		<b>PN0006220</b>	PN959409	PN948859
Sample Date		Client Info		<b>06 Jun 2024</b>	18 May 2016	17 Jul 2015
Machine Age	yrs	Client Info		<b>0</b>	0	0
Oil Age	yrs	Client Info		<b>0</b>	0	0
Filter Age	yrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	SEVERE

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	<b>2</b>	2	2
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>30	<b>&lt;1</b>	2	2
Lead	ppm	ASTM D5185(m)	>30	<b>1</b>	2	2
Copper	ppm	ASTM D5185(m)	>30	<b>2</b>	1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

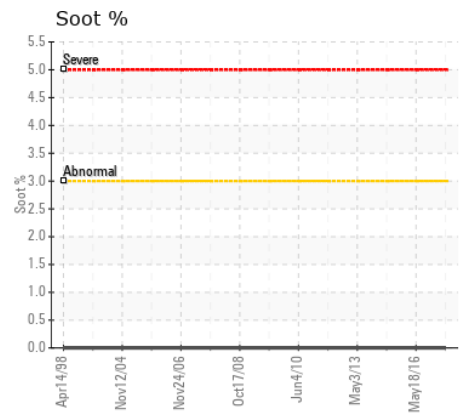
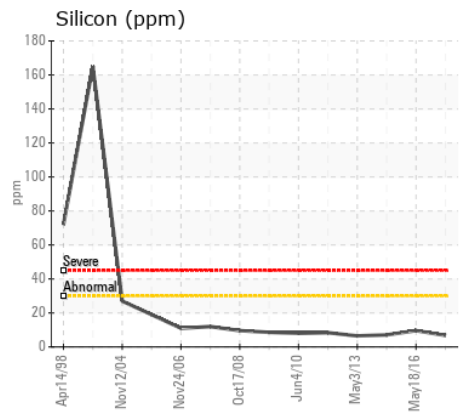
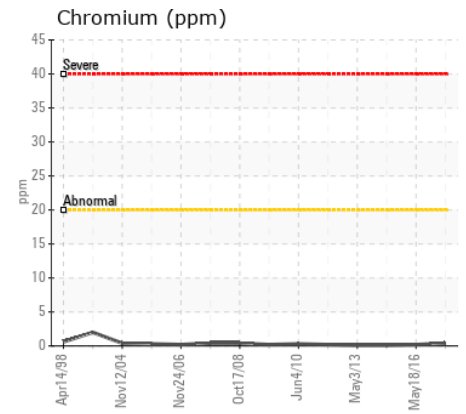
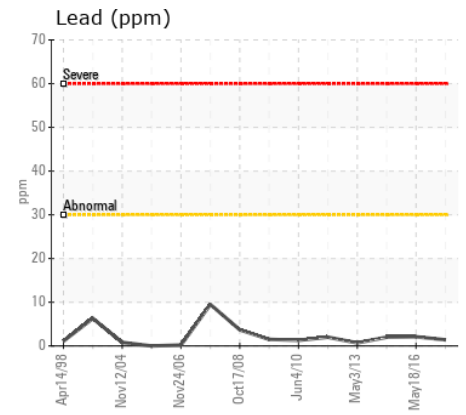
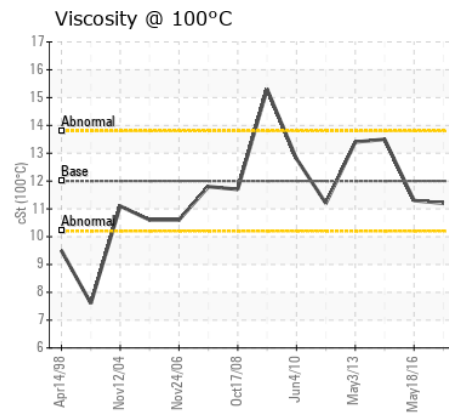
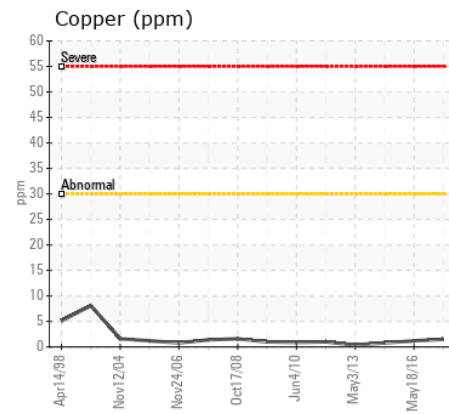
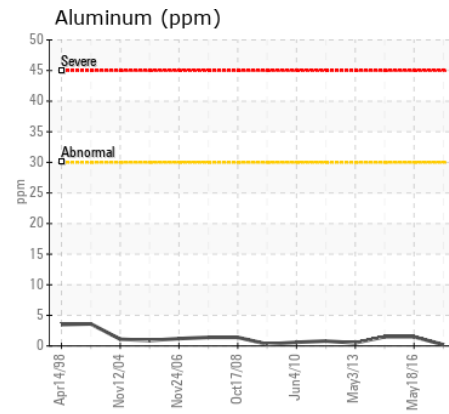
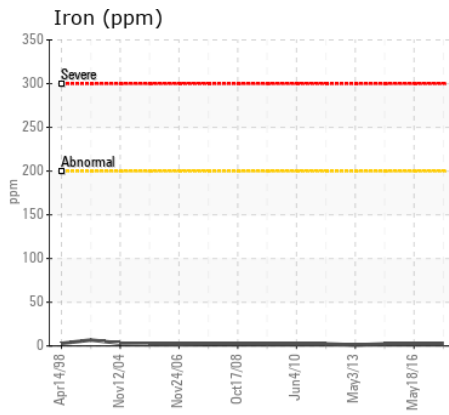
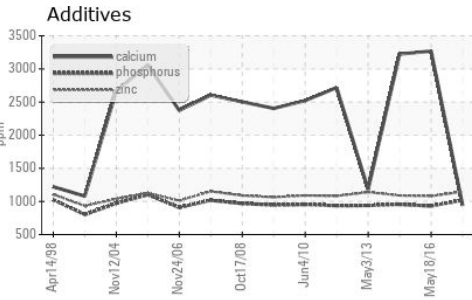
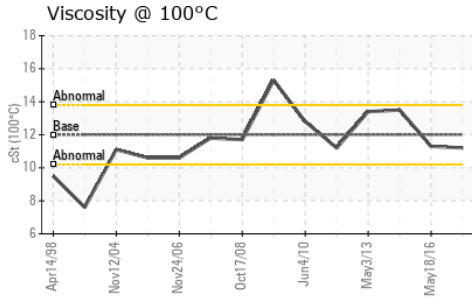
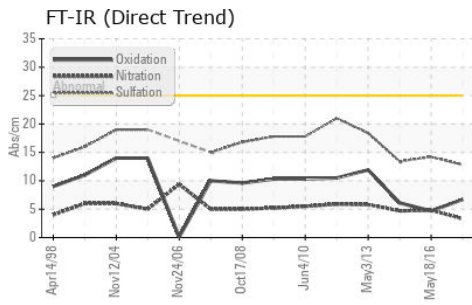
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	<b>7</b>	10	7
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	▲ 2.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	0.0	▲ 0.10
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>3.3</b>	4.8	4.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>12.8</b>	14.2	13.4
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	VLITE	---
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	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

Additive levels indicate the addition of a different brand, or type of oil.  
 The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>16	<b>1</b>	● 449	● 455
Boron	ppm	ASTM D5185(m)		<b>&lt;1</b>	2	4
Barium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	3	4
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>871</b>	52	68
Calcium	ppm	ASTM D5185(m)	2550	<b>939</b>	3269	3224
Phosphorus	ppm	ASTM D5185(m)	1000	<b>1019</b>	931	956
Zinc	ppm	ASTM D5185(m)	1120	<b>1149</b>	1079	1089
Sulfur	ppm	ASTM D5185(m)		<b>2517</b>	3344	3587
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>6.7</b>	4.7	6.1
Visc @ 100°C	cSt	ASTM D7279(m)	12.0	<b>11.2</b>	▲ 11.3	13.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006220 **Received** : 14 Jun 2024  
**Lab Number** : **02641892** **Tested** : 14 Jun 2024  
**Unique Number** : 5799431 **Diagnosed** : 17 Jun 2024 - Kevin Marson  
**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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