



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

Machine Id  
**14190 CREDITVIEW RD, CHELTENHAM WATER REGION OF PEEL 45255906**

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>PN0006226</b>	PN0004875	PN0001319
Sample Date		Client Info		<b>12 Jun 2024</b>	14 Jun 2023	21 Jul 2020
Machine Age	hrs	Client Info		<b>851</b>	832	770
Oil Age	hrs	Client Info		<b>40</b>	0	9
Filter Age	hrs	Client Info		<b>40</b>	0	9
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)	>90	<b>2</b>	2	2
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<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)	>20	<b>&lt;1</b>	2	<1
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	0
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	0
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

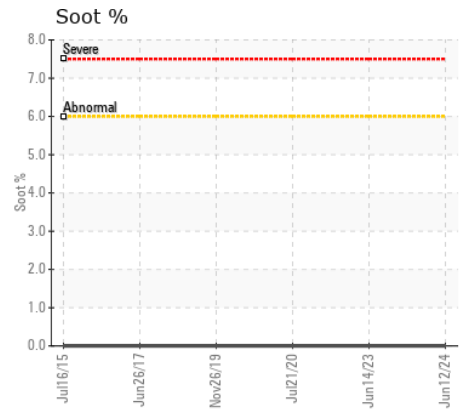
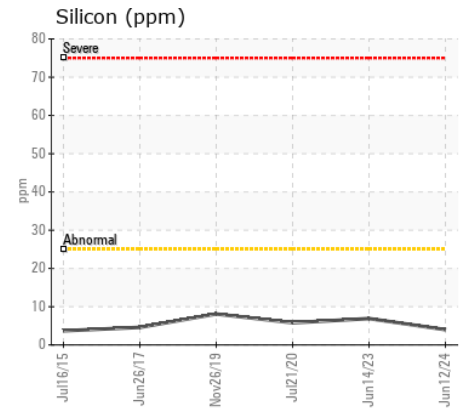
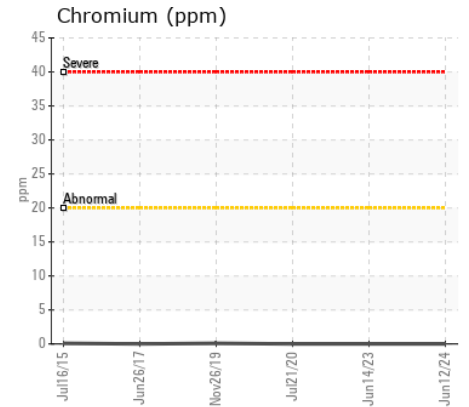
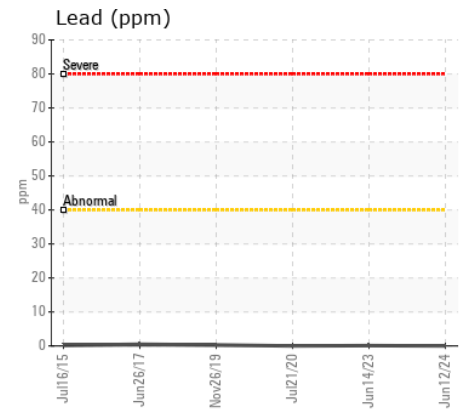
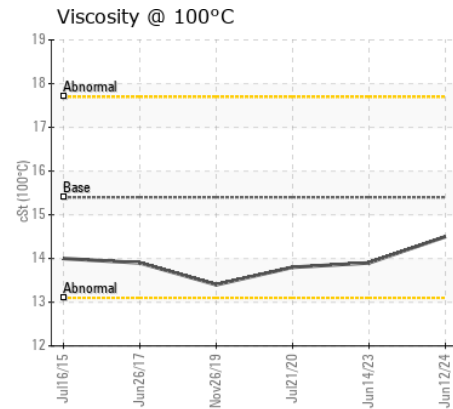
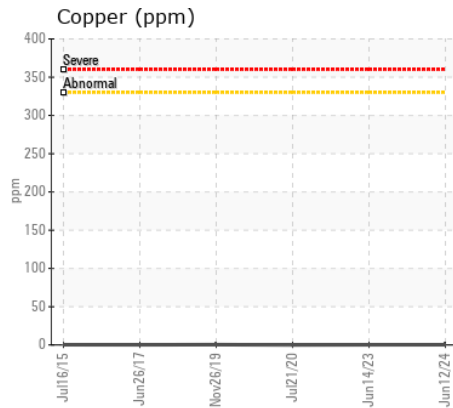
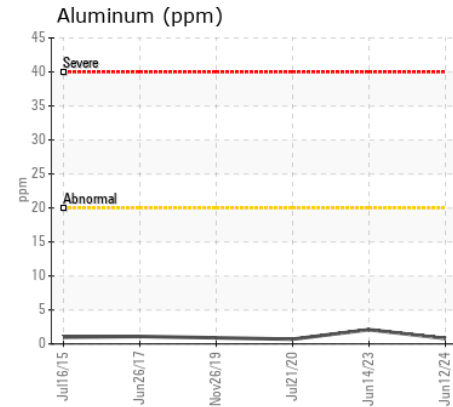
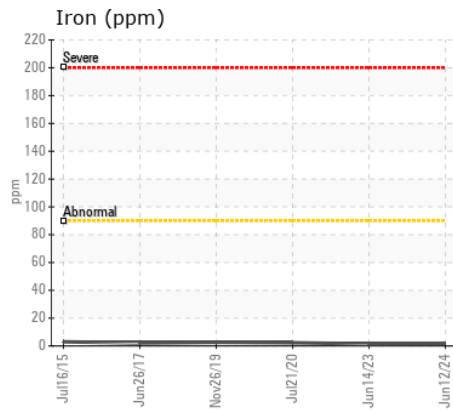
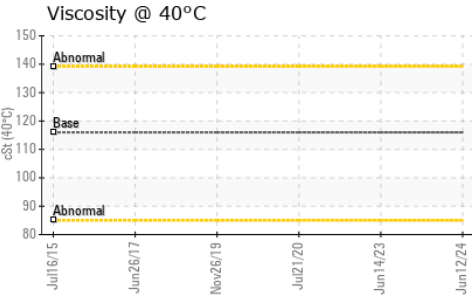
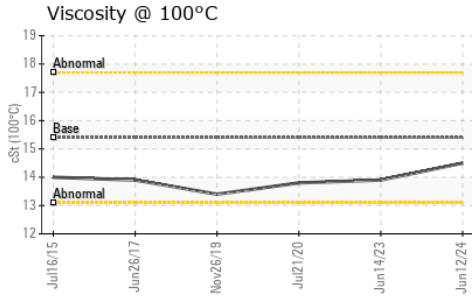
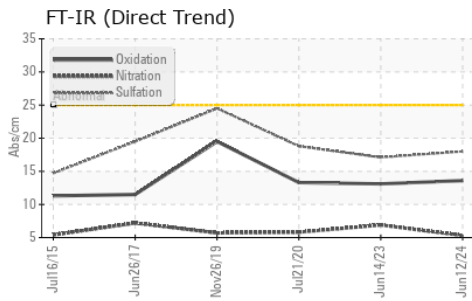
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	7	6
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	2
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>6	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.3</b>	6.9	5.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.0</b>	17.1	18.8
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.2	<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	<1
Boron	ppm	ASTM D5185(m)		<b>18</b>	69	79
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>46</b>	9	13
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)		<b>743</b>	82	587
Calcium	ppm	ASTM D5185(m)	3780	<b>1303</b>	2015	1319
Phosphorus	ppm	ASTM D5185(m)	1370	<b>1009</b>	1072	692
Zinc	ppm	ASTM D5185(m)	1500	<b>1165</b>	1093	771
Sulfur	ppm	ASTM D5185(m)	3800	<b>2745</b>	3116	2351
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.6</b>	13.1	13.3
Visc @ 40°C	cSt	ASTM D7279(m)	116	<b>108</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.5</b>	13.9	13.8
Viscosity Index (VI)	Scale	ASTM D2270*	140	<b>137</b>	---	---



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006226 **Received** : 18 Jun 2024  
**Lab Number** : 02642535 **Tested** : 18 Jun 2024  
**Unique Number** : 5800074 **Diagnosed** : 18 Jun 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KV40, VI, 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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