



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

Area

[86937]

Machine Id

12025 BRAMALEA RD CALEDON REGION OF PEEL TO4039D423572

Component

Rear Diesel Engine

Fluid

ESSO XD-3 EXTRA 15W40 (10 LTR)

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0006275</b>	PN0002482	---
Sample Date		Client Info		<b>12 Jun 2024</b>	09 Jun 2021	---
Machine Age	hrs	Client Info		<b>962</b>	893	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

**WEAR**

Metal levels are typical for a new component breaking in.

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

**CONTAMINATION**

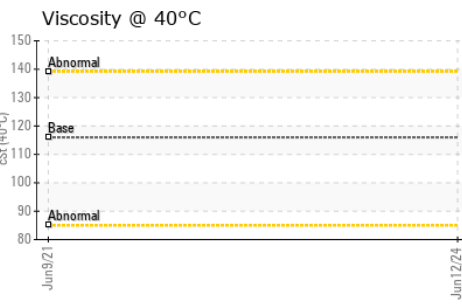
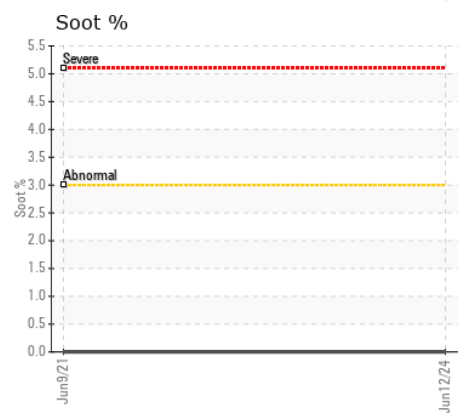
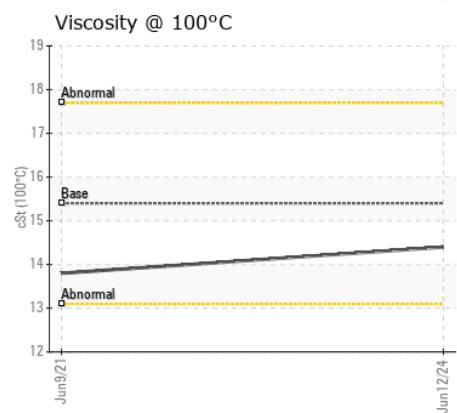
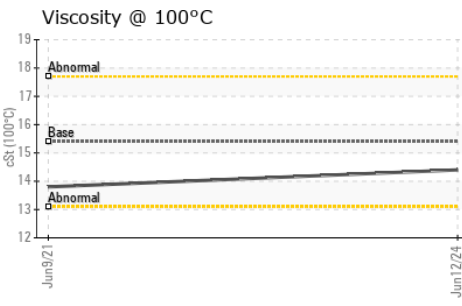
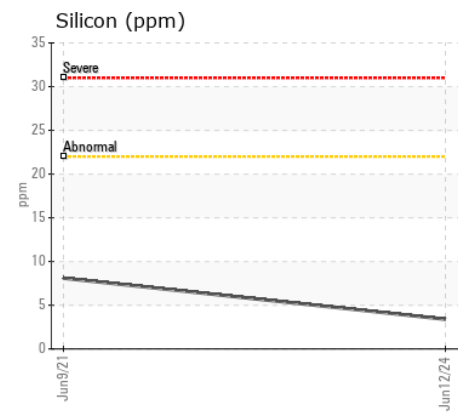
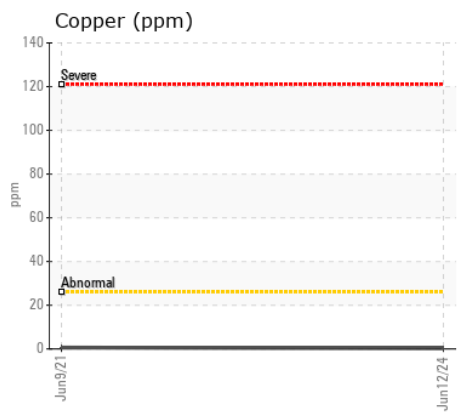
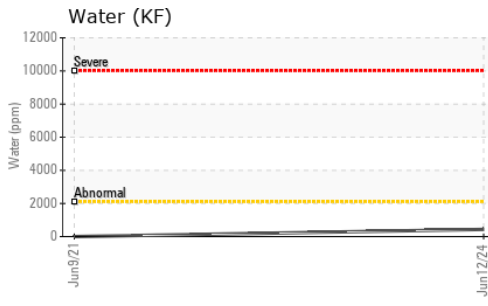
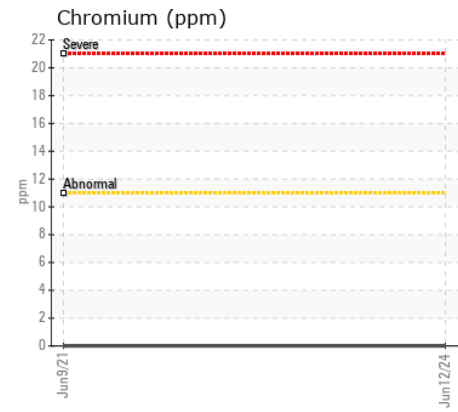
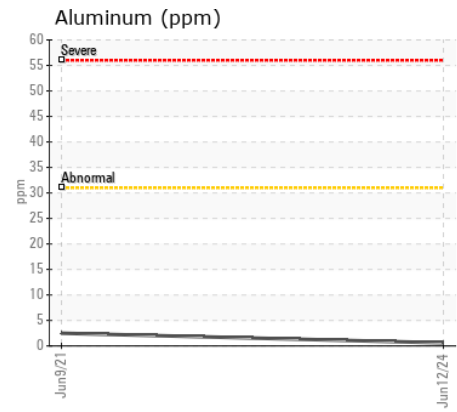
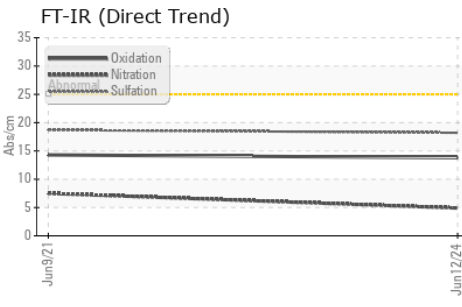
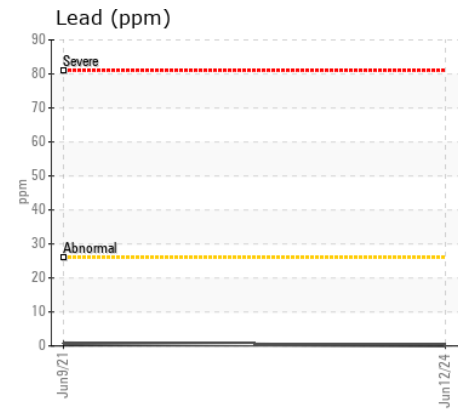
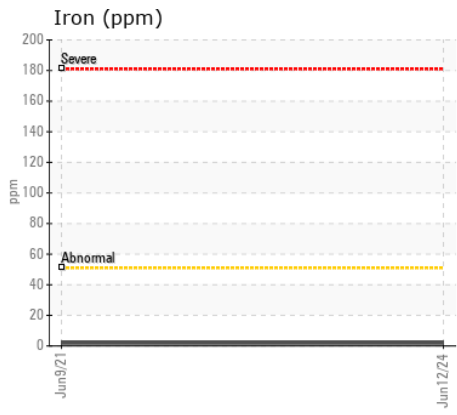
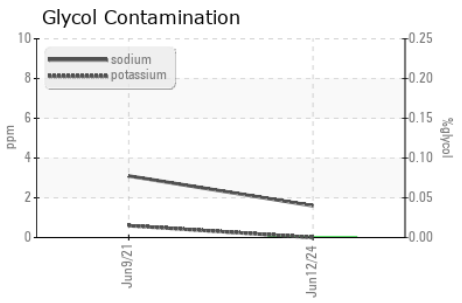
The water content is negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	<b>3</b>	8	---
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	---
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	---
Water	%	ASTM D6304*	>0.21	<b>0.043</b>	---	---
ppm Water	ppm	ASTM D6304*	>2100	<b>433</b>	---	---
Glycol	%	ASTM D7922*		<b>0.0</b>	NEG	---
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>4.9</b>	7.5	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.2</b>	18.7	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>WGOIL</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	Visual*	>0.21	<b>.2%</b>	NEG	---

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)	>192	<b>2</b>	3	---
Boron	ppm	ASTM D5185(m)		<b>11</b>	72	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)		<b>58</b>	82	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185(m)		<b>849</b>	100	---
Calcium	ppm	ASTM D5185(m)	3780	<b>1135</b>	2043	---
Phosphorus	ppm	ASTM D5185(m)	1370	<b>987</b>	979	---
Zinc	ppm	ASTM D5185(m)	1500	<b>1134</b>	1159	---
Sulfur	ppm	ASTM D5185(m)	3800	<b>2599</b>	3255	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.8</b>	14.3	---
Visc @ 40°C	cSt	ASTM D7279(m)	116	<b>108</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.4</b>	13.8	---
Viscosity Index (VI)	Scale	ASTM D2270*	140	<b>136</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006275 **Received** : 18 Jun 2024  
**Lab Number** : 02642538 **Tested** : 20 Jun 2024  
**Unique Number** : 5800077 **Diagnosed** : 20 Jun 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: Glycol, KF, 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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