



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

Area

**[86875]**

Machine Id

**7755 HERITAGE RD, BRAMPTON MULLET CREEK-WASTE REGION OF PEEL 6068HF485**

Component

**Right Diesel Engine**

Fluid

**ESSO XD-3 EXTRA 15W40 (40 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0006218</b>	PN0004892	PN993350
Sample Date		Client Info		<b>07 Jun 2024</b>	09 Jun 2023	08 Jun 2017
Machine Age	hrs	Client Info		<b>290</b>	276	172
Oil Age	hrs	Client Info		<b>15</b>	20	0
Filter Age	hrs	Client Info		<b>15</b>	20	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>7</b>	8	3
Chromium	ppm	ASTM D5185(m)	>11	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>31	<b>&lt;1</b>	1	1
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>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

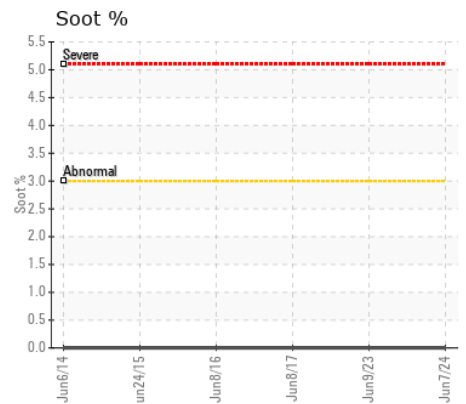
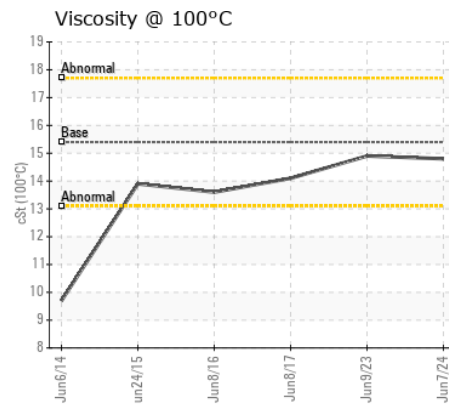
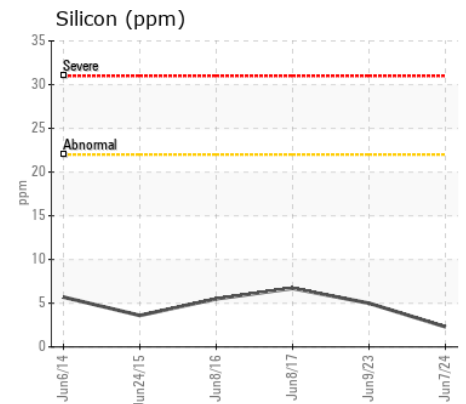
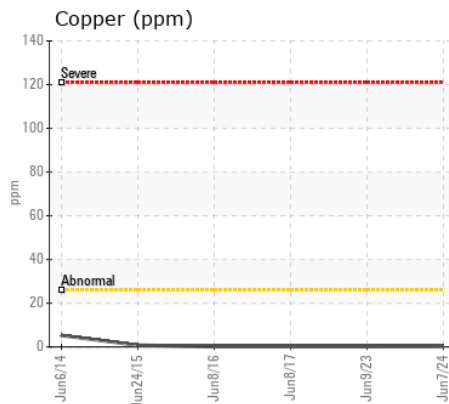
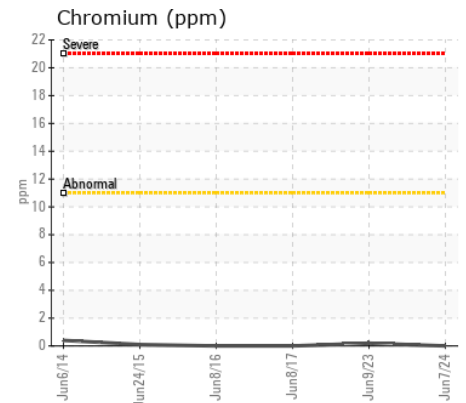
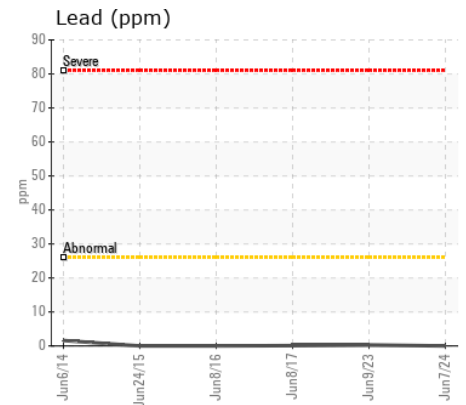
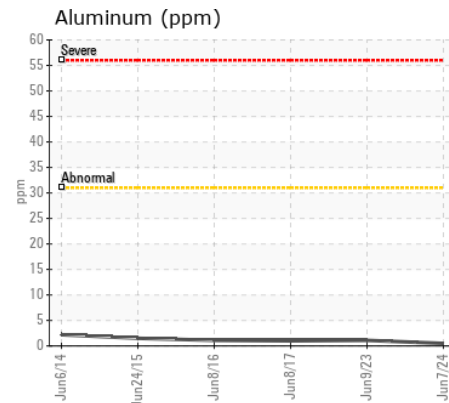
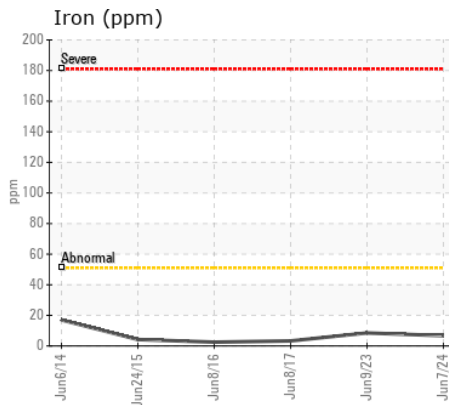
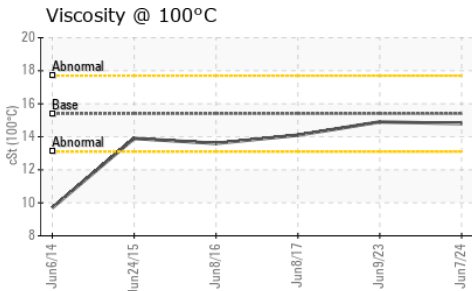
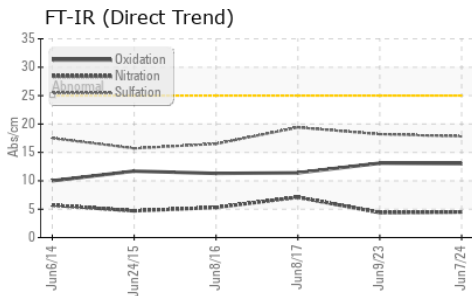
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	<b>2</b>	5	7
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	2
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	<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>4.5</b>	4.4	7.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.8</b>	18.2	19.4
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>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	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	<1
Boron	ppm	ASTM D5185(m)		<b>8</b>	9	6
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>55</b>	60	4
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>876</b>	932	66
Calcium	ppm	ASTM D5185(m)	3780	<b>1086</b>	1220	2113
Phosphorus	ppm	ASTM D5185(m)	1370	<b>982</b>	1170	869
Zinc	ppm	ASTM D5185(m)	1500	<b>1147</b>	1249	1015
Sulfur	ppm	ASTM D5185(m)	3800	<b>2563</b>	2931	2630
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.0</b>	13.1	11.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.8</b>	14.9	14.1



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006218  
**Lab Number** : 02641888  
**Unique Number** : 5799427  
**Test Package** : MOB 1 ( Additional Tests: Visual )

**Received** : 14 Jun 2024  
**Tested** : 14 Jun 2024  
**Diagnosed** : 14 Jun 2024 - Wes Davis

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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