



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

Area

**[86978]**

Machine Id

2040 DON MILLS RD, TORONTO P1 PARKING LOT DUNCAN MILL COOP RG6076A185182

Component

Right Diesel Engine

Fluid

ESSO XD-3 EXTRA 15W40 (25 LTR)

**RECOMMENDATION**

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0006302</b>	PN0004881	PN0003453
Sample Date		Client Info		<b>14 Jun 2024</b>	13 Jun 2023	03 May 2022
Machine Age	hrs	Client Info		<b>613</b>	593	574
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	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>ABNORMAL</b>	SEVERE	NORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

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

**CONTAMINATION**

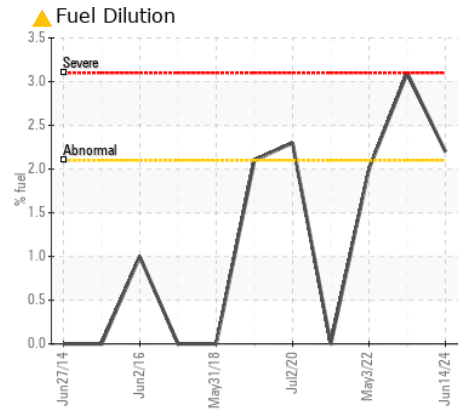
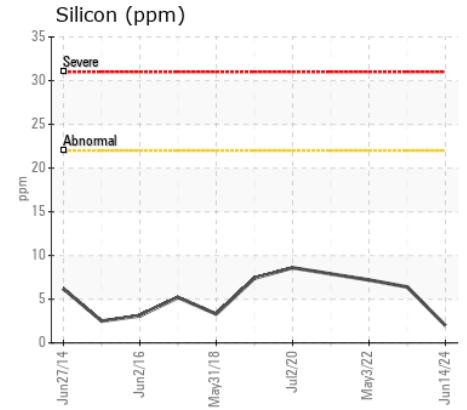
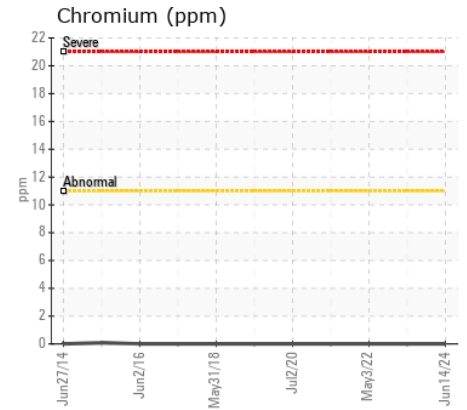
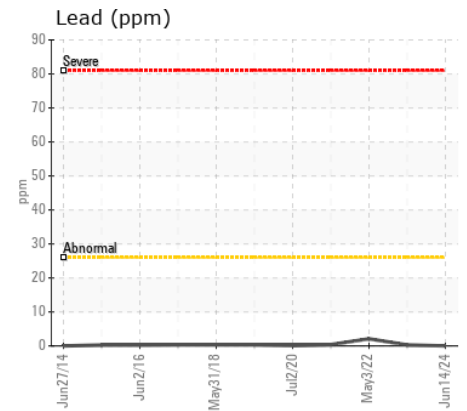
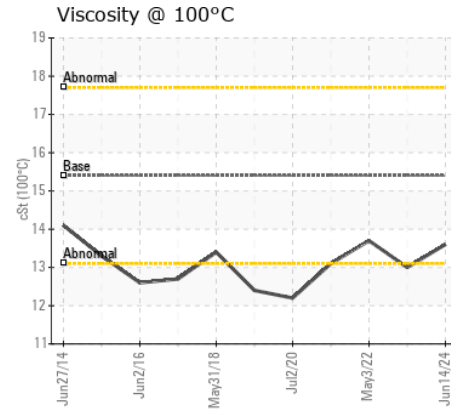
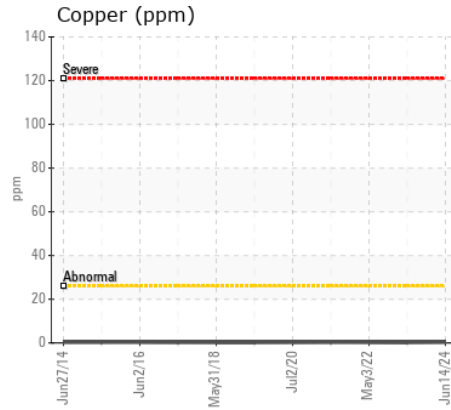
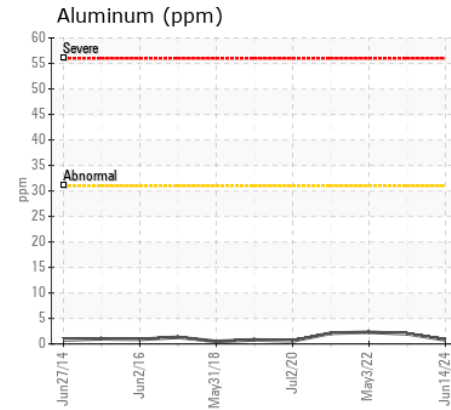
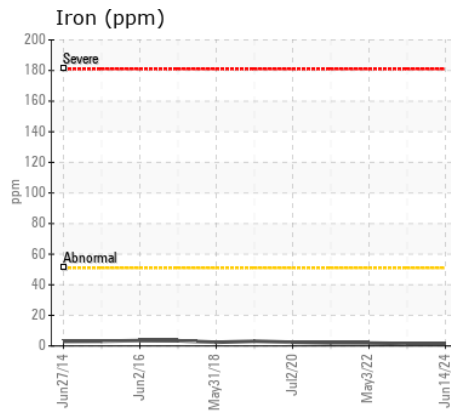
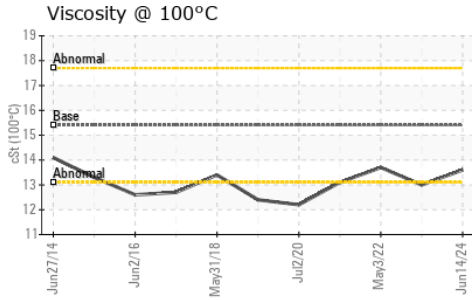
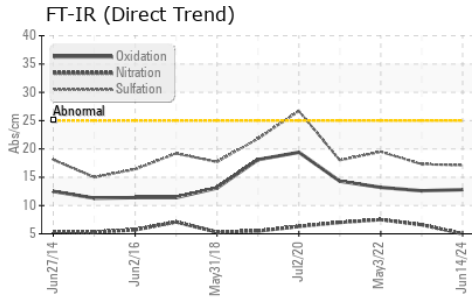
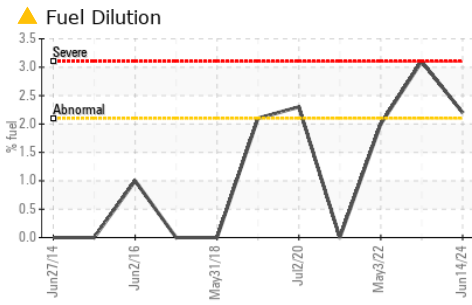
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185(m)	>22	<b>2</b>	6	7
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1
Fuel	%	ASTM D7593*	>2.1	<b>▲ 2.2</b>	▲ 3.1	2
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>5.0</b>	6.6	7.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.1</b>	17.3	19.5
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	NORML
Emulsified Water	scalar	Visual*	>0.21	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)	>192	<b>1</b>	1	2
Boron	ppm	ASTM D5185(m)		<b>10</b>	62	76
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>53</b>	35	83
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>831</b>	210	34
Calcium	ppm	ASTM D5185(m)	3780	<b>1121</b>	2060	2098
Phosphorus	ppm	ASTM D5185(m)	1370	<b>958</b>	1102	1041
Zinc	ppm	ASTM D5185(m)	1500	<b>1125</b>	1157	1127
Sulfur	ppm	ASTM D5185(m)	3800	<b>2572</b>	3235	3186
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>12.8</b>	12.6	13.2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.6</b>	▲ 13.0	13.7



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006302 **Received** : 28 Jun 2024  
**Lab Number** : 02644490 **Tested** : 02 Jul 2024  
**Unique Number** : 5802029 **Diagnosed** : 02 Jul 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: PercentFuel, 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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