



WEAR

NORMAL

CONTAMINATION

ABNORMAL

FLUID CONDITION

ABNORMAL

Area
[85484]
 Machine Id
2085 MIDLAND AVE TORONTO TTC SUBWAY G830669068

Component
Rear Diesel Engine

Fluid
ESSO XD-3 EXTRA 15W40 (5 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		PN0006093	PN0005189	---
Sample Date		Client Info		24 Apr 2024	13 Oct 2023	---
Machine Age	hrs	Client Info		0	0	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Not Changed	Changed	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	4	5	---
Chromium	ppm	ASTM D5185(m)	>20	2	<1	---
Nickel	ppm	ASTM D5185(m)	>4	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	---
Lead	ppm	ASTM D5185(m)	>40	7	20	---
Copper	ppm	ASTM D5185(m)	>330	1	2	---
Tin	ppm	ASTM D5185(m)	>15	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

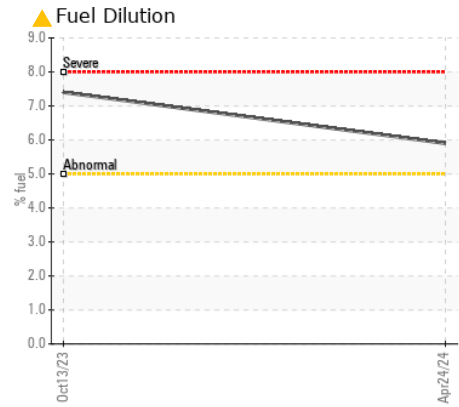
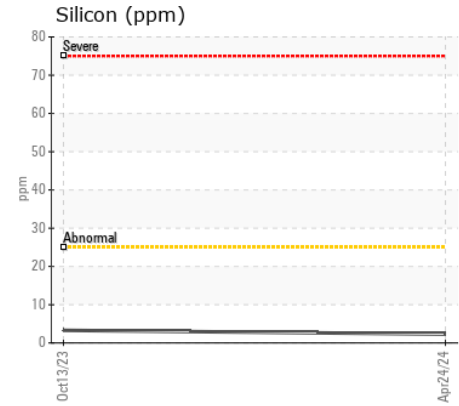
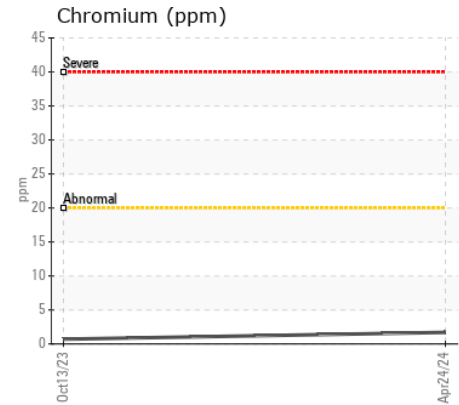
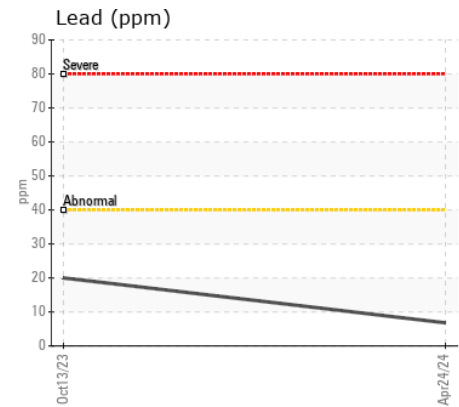
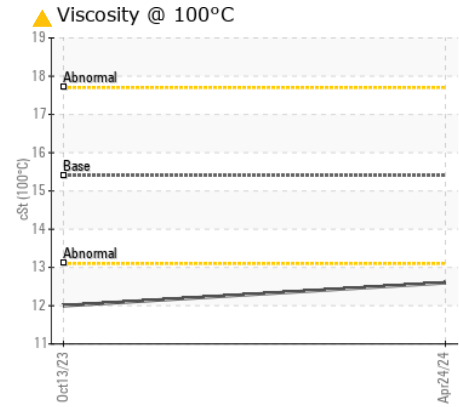
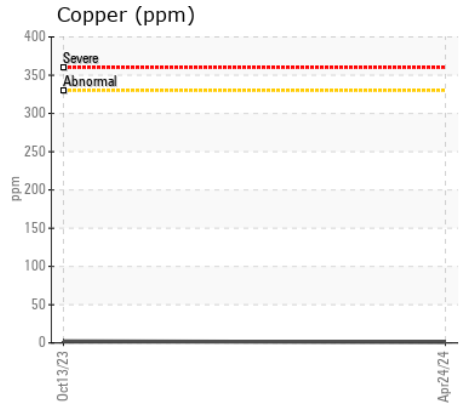
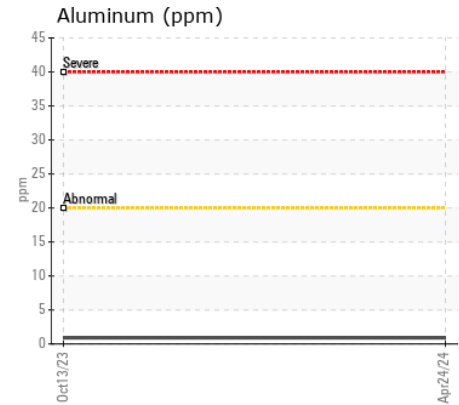
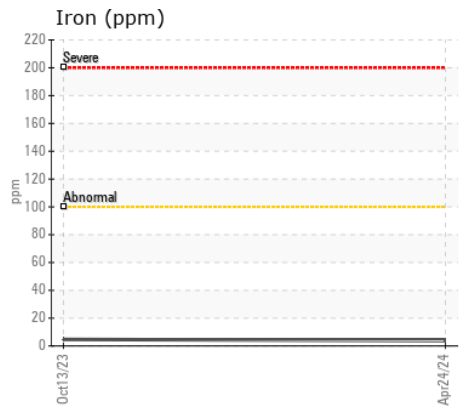
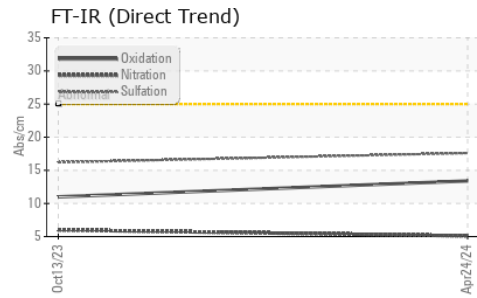
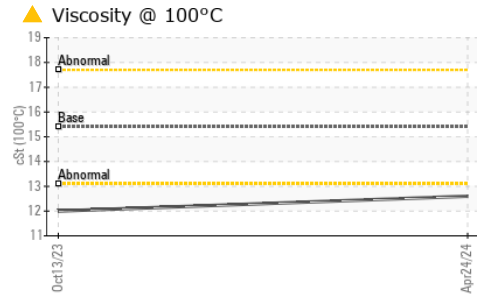
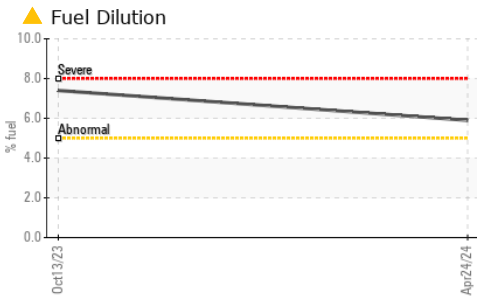
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	3	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---
Fuel	%	ASTM D7593*	>5	▲ 5.9	▲ 7.4	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>3	0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	5.1	6.0	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.6	16.2	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)	>192	2	2	---
Boron	ppm	ASTM D5185(m)		7	6	---
Barium	ppm	ASTM D5185(m)		0	<1	---
Molybdenum	ppm	ASTM D5185(m)		40	6	---
Manganese	ppm	ASTM D5185(m)		0	0	---
Magnesium	ppm	ASTM D5185(m)		651	16	---
Calcium	ppm	ASTM D5185(m)	3780	1278	2049	---
Phosphorus	ppm	ASTM D5185(m)	1370	851	▲ 669	---
Zinc	ppm	ASTM D5185(m)	1500	995	▲ 795	---
Sulfur	ppm	ASTM D5185(m)	3800	2380	2463	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.4	11.0	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	▲ 12.6	▲ 12.0	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006093 **Received** : 01 May 2024
Lab Number : 02632487 **Tested** : 02 May 2024
Unique Number : 5773640 **Diagnosed** : 02 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: PercentFuel)

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.

POWER STATION INC.
 1050 JAYSON COURT
 MISSISSAUGA, ON
 CA L4W 2V5
 Contact: Crystal Noel
 cnoel@pwrstn.com
 T: (905)565-1621
 F: (905)565-8544