



Area

[86196]

Machine Id

4742 STEELES AVE W VAUGHAN YORK REGION HUMBER SPS

Component

Right Diesel Engine

Fluid

ESSO XD-3 EXTRA 15W40 (380 LTR)

**RECOMMENDATION**

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MOB 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid. this testkit includes BN to determine the suitability of the oil for continued use.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006131	---	---
Sample Date		Client Info		07 May 2024	---	---
Machine Age	hrs	Client Info		807	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

**WEAR**

Metal levels are typical for a new component breaking in. Component wear rates appear to be normal (unconfirmed).

Iron	ppm	ASTM D5185(m)	>100	2	---	---
Chromium	ppm	ASTM D5185(m)	>20	0	---	---
Nickel	ppm	ASTM D5185(m)	>2	0	---	---
Titanium	ppm	ASTM D5185(m)	>2	0	---	---
Silver	ppm	ASTM D5185(m)	>2	0	---	---
Aluminum	ppm	ASTM D5185(m)	>25	<1	---	---
Lead	ppm	ASTM D5185(m)	>40	<1	---	---
Copper	ppm	ASTM D5185(m)	>330	9	---	---
Tin	ppm	ASTM D5185(m)	>15	<1	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	VLITE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

**CONTAMINATION**

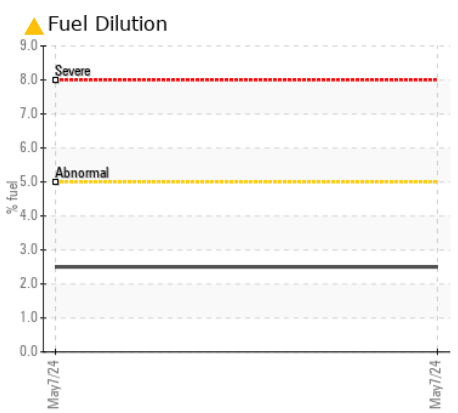
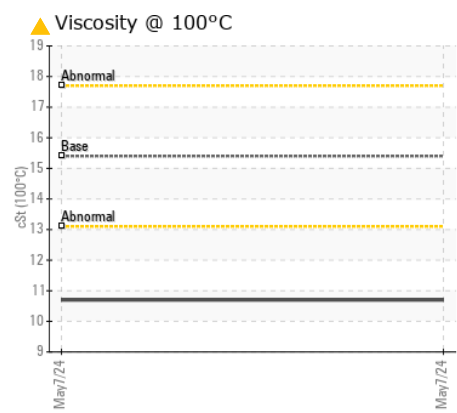
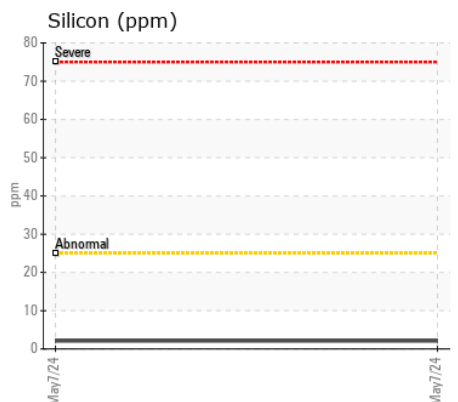
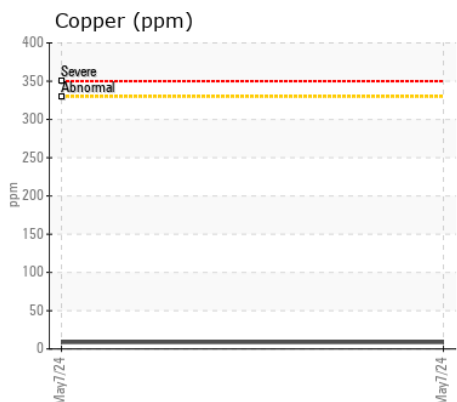
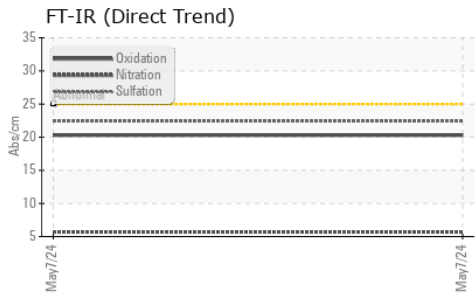
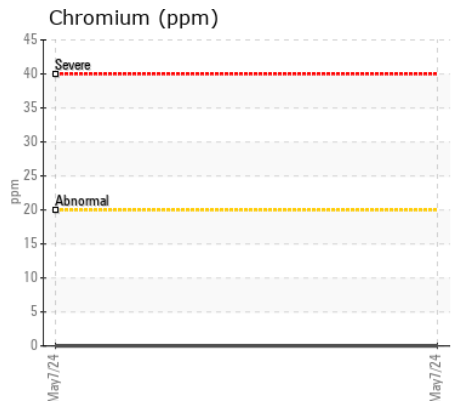
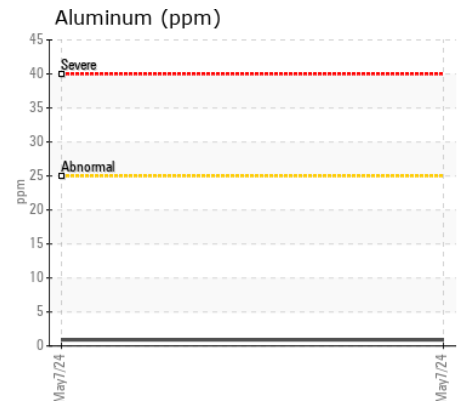
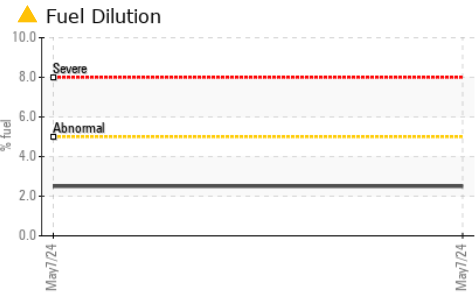
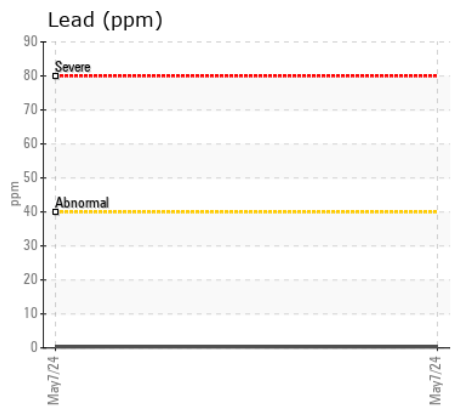
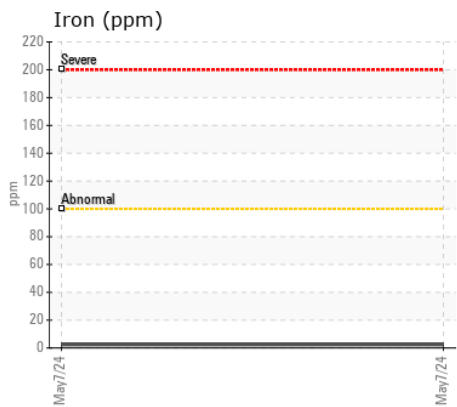
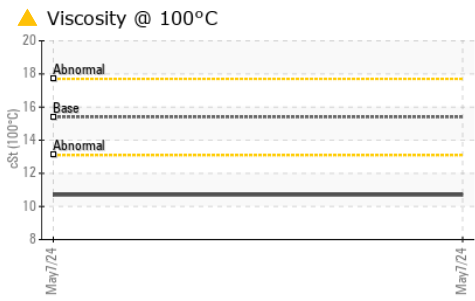
Light fuel dilution occurring.

Silicon	ppm	ASTM D5185(m)	>25	2	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---
Fuel	%	ASTM D7593*	>5	▲ 2.5	---	---
Water		WC Method	>0.2	NEG	---	---
Glycol		WC Method		NEG	---	---
Soot %	%	ASTM D7844*	>3	0	---	---
Nitration	Abs/cm	ASTM D7624*	>20	5.7	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.4	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---

**FLUID CONDITION**

Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for the time in service (unconfirmed).

Sodium	ppm	ASTM D5185(m)	>192	2	---	---
Boron	ppm	ASTM D5185(m)		58	---	---
Barium	ppm	ASTM D5185(m)		0	---	---
Molybdenum	ppm	ASTM D5185(m)		40	---	---
Manganese	ppm	ASTM D5185(m)		<1	---	---
Magnesium	ppm	ASTM D5185(m)		497	---	---
Calcium	ppm	ASTM D5185(m)	3780	1660	---	---
Phosphorus	ppm	ASTM D5185(m)	1370	902	---	---
Zinc	ppm	ASTM D5185(m)	1500	1041	---	---
Sulfur	ppm	ASTM D5185(m)	3800	2408	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.3	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	▲ 10.7	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006131 **Received** : 13 May 2024  
**Lab Number** : 02634910 **Tested** : 14 May 2024  
**Unique Number** : 5776063 **Diagnosed** : 14 May 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel, Visual )

**POWER STATION INC.**  
 1050 JAYSON COURT  
 MISSISSAUGA, ON  
 CA L4W 2V5  
 Contact: Brett Kinkley  
 Bkinkley@pwrstn.com  
 T:  
 F: (905)565-8544

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.