



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
2015 LAWRENCE TORONTO CITY OF TORONTO 0062771

Component
Right Natural Gas Engine
 Fluid
ESSO XD-3 EXTRA 15W40 (40 LTR)

RECOMMENDATION

We advise that you check for the source of water entry. 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		PN0005729	PN0004444	PN0003178
Sample Date		Client Info		27 Dec 2023	29 Dec 2022	05 Jan 2022
Machine Age	hrs	Client Info		0	57	48
Oil Age	hrs	Client Info		15	9	0
Filter Age	hrs	Client Info		15	9	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Not Changed	Changed	Changed
Sample Status				ABNORMAL	SEVERE	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	4	4	4
Chromium	ppm	ASTM D5185(m)	>4	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	3	2
Silver	ppm	ASTM D5185(m)	>3	0	1	<1
Aluminum	ppm	ASTM D5185(m)	>9	4	4	4
Lead	ppm	ASTM D5185(m)	>30	1	6	5
Copper	ppm	ASTM D5185(m)	>35	41	181	140
Tin	ppm	ASTM D5185(m)	>4	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	<1
White Metal	scalar	Visual*	NONE	NONE	VLITE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

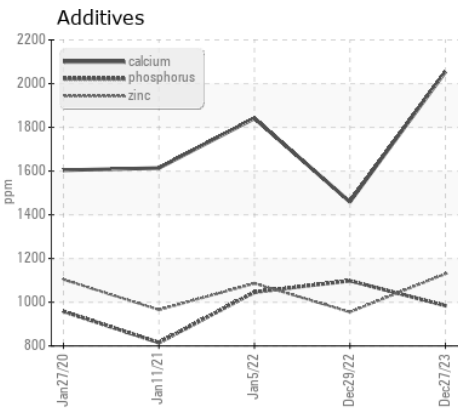
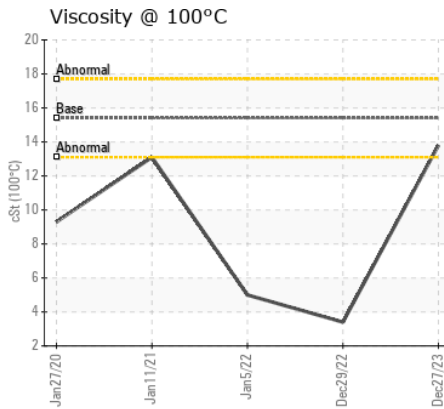
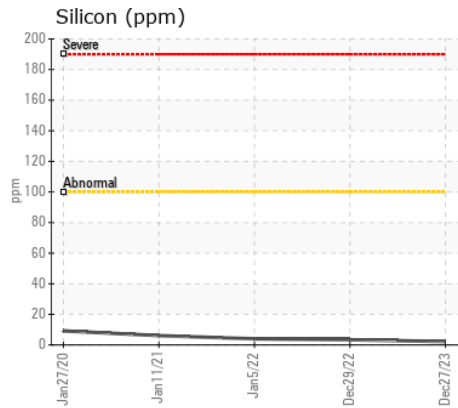
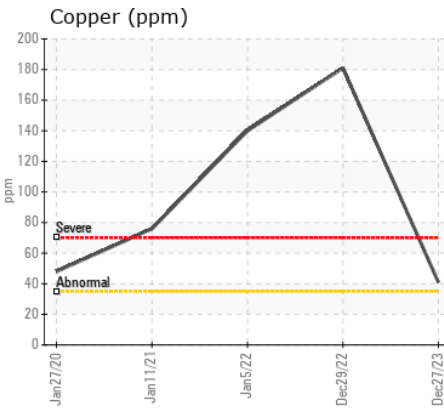
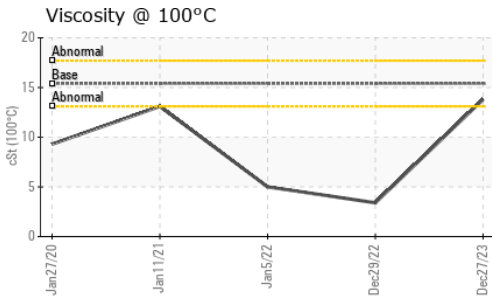
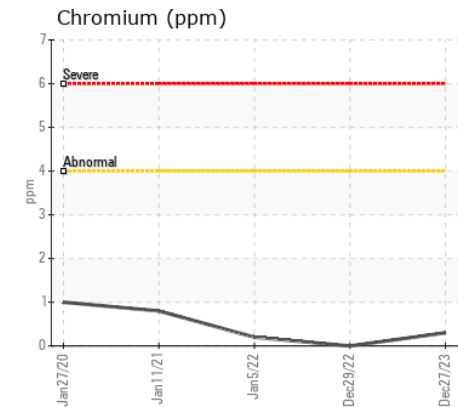
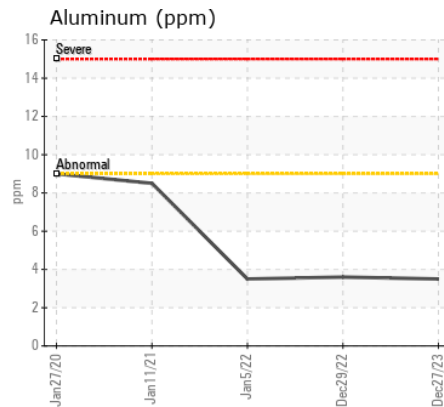
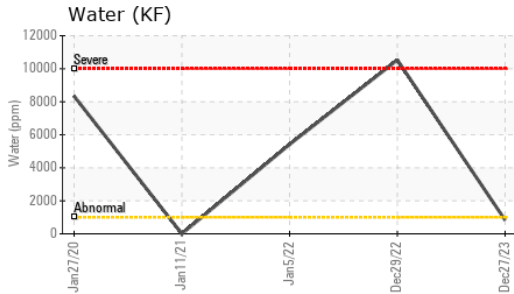
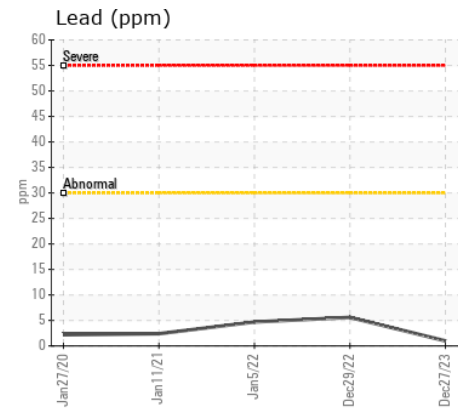
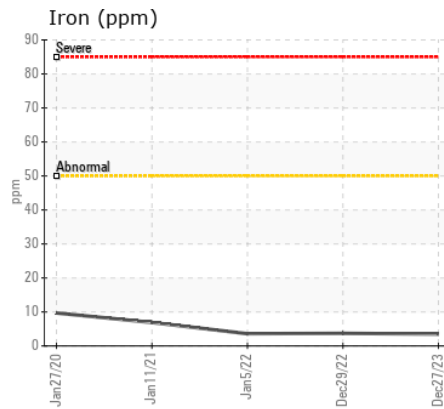
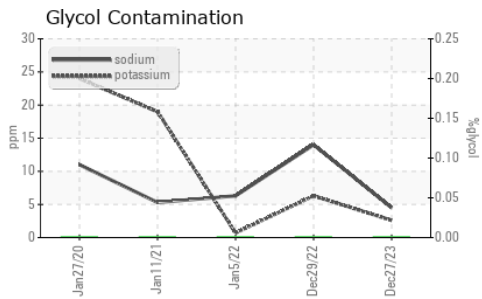
Free water present. Test for glycol is negative.

Silicon	ppm	ASTM D5185(m)	>+100	2	3	4
Potassium	ppm	ASTM D5185(m)	>20	3	6	<1
Water	%	ASTM D6304*	>0.1	0.083	1.052	0.541
ppm Water	ppm	ASTM D6304*	>1000	834	10529.6	5415.5
Glycol	%	ASTM D7922*		0.0	0.0	0.0
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	7.4	10.4	3.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.4	16.4	8.9
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	.2%	.2%	.2%

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>192	4	14	6
Boron	ppm	ASTM D5185(m)		68	58	75
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		23	73	73
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		158	99	125
Calcium	ppm	ASTM D5185(m)	3780	2054	1459	1841
Phosphorus	ppm	ASTM D5185(m)	1370	984	1098	1046
Zinc	ppm	ASTM D5185(m)	1500	1130	955	1086
Sulfur	ppm	ASTM D5185(m)	3800	3443	3433	3284
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.7	14.2	6.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.8	3.4	5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005729 **Received** : 08 Jan 2024
Lab Number : 02606997 **Diagnosed** : 10 Jan 2024
Unique Number : 5708083 **Diagnostician** : Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, KF, 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.

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