



Area

[85521]

Machine Id

725 COLBOURNE ST, LONDON BELL CANADA BELL CANADA

Component

Right Diesel Engine

Fluid

ESSO XD-3 EXTRA SAE 40 (60 LTR)

RECOMMENDATION

We advise that you check the fuel injection system. 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		PN0005976	PN0004492	PN0003366
Sample Date		Client Info		22 Apr 2024	14 Feb 2023	22 Mar 2022
Machine Age	hrs	Client Info		1158	1141	1113
Oil Age	hrs	Client Info		0	0	30
Filter Age	hrs	Client Info		0	0	30
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	SEVERE	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	2	2	2
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	0	<1	<1
Lead	ppm	ASTM D5185(m)	>30	0	<1	<1
Copper	ppm	ASTM D5185(m)	>30	4	3	4
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

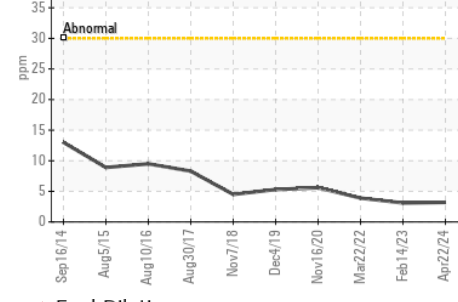
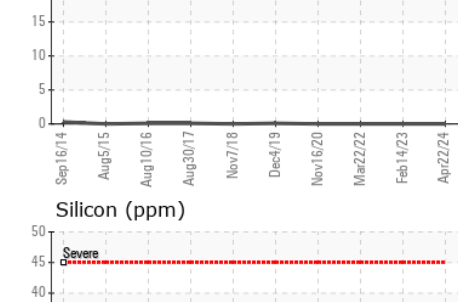
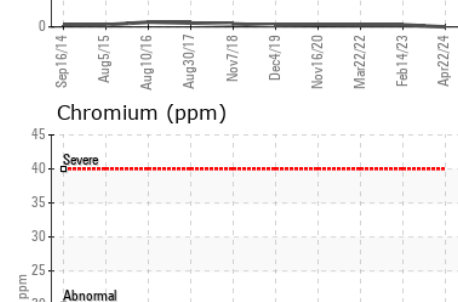
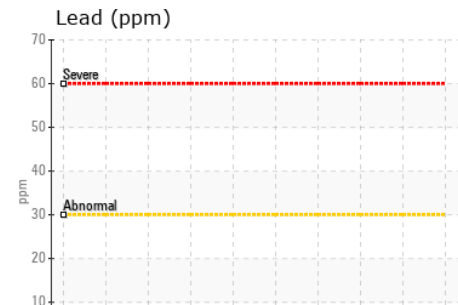
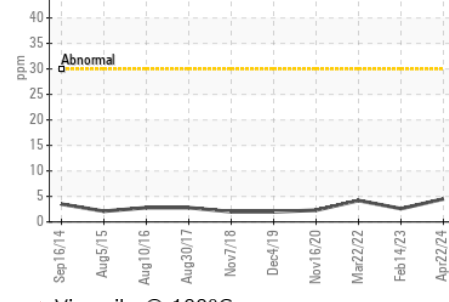
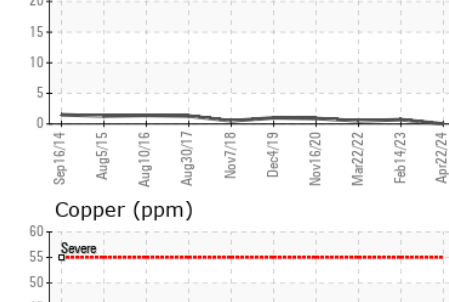
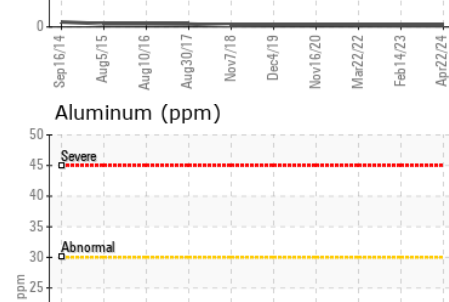
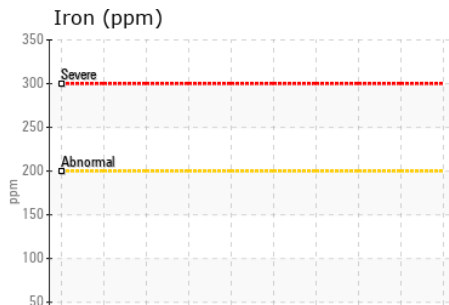
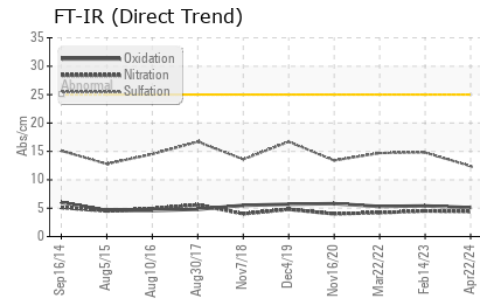
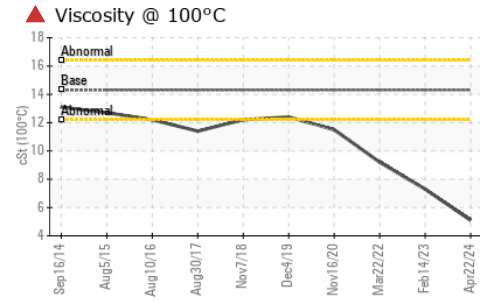
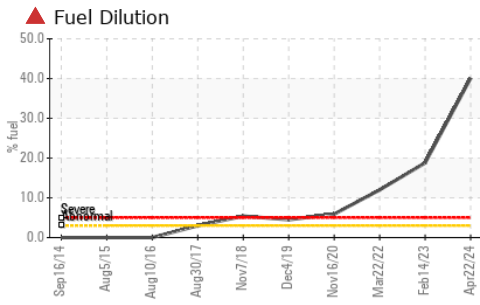
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185(m)	>30	3	3	4
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
Fuel	%	ASTM D7593*	>3.0	▲ 40.1	▲ 18.8	▲ 12
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	4.4	4.5	4.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	12.4	14.8	14.7
Emulsified Water	scalar	Visual*	>0.2	NEG	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)		6	7	22
Boron	ppm	ASTM D5185(m)		6	11	10
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		5	10	8
Manganese	ppm	ASTM D5185(m)		0	<1	0
Magnesium	ppm	ASTM D5185(m)		248	53	64
Calcium	ppm	ASTM D5185(m)	2550	1708	2794	3004
Phosphorus	ppm	ASTM D5185(m)	1000	556	614	686
Zinc	ppm	ASTM D5185(m)	1120	613	616	714
Sulfur	ppm	ASTM D5185(m)		1636	1951	2109
Oxidation	Abs/.1mm	ASTM D7414*	>25	5.1	5.4	5.3
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	▲ 5.1	▲ 7.3	▲ 9.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005976 **Received** : 26 Apr 2024
Lab Number : 02631483 **Tested** : 29 Apr 2024
Unique Number : 5772636 **Diagnosed** : 29 Apr 2024 - Kevin Marson
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: Brett Kinkley
 Bkinkley@pwrstn.com
 T:
 F: (905)565-8544