



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
450 PRINCESS ST KINGSTON, UNIT 1 BELL CANADA 535108520

Component
Right Diesel Engine

Fluid
ESSO XD-3 EXTRA 15W40 (80 LTR)

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005990	PN0004403	PN0003145
Sample Date		Client Info		03 Apr 2024	07 Dec 2022	06 Dec 2021
Machine Age	hrs	Client Info		396	355	352
Oil Age	hrs	Client Info		0	39	30
Filter Age	hrs	Client Info		0	39	30
Oil Changed		Client Info		Not Chngd	Not Chngd	Changed
Filter Changed		Client Info		Not Chngd	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	6	6	5
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	1	2	1
Lead	ppm	ASTM D5185(m)	>40	1	2	1
Copper	ppm	ASTM D5185(m)	>330	3	3	3
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

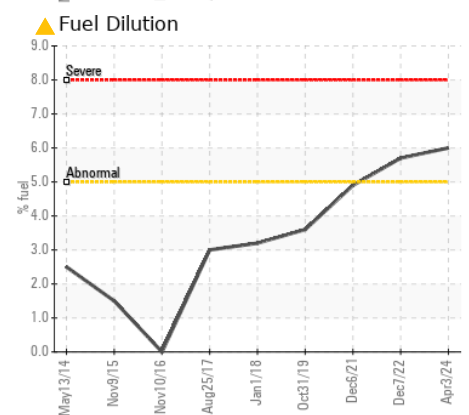
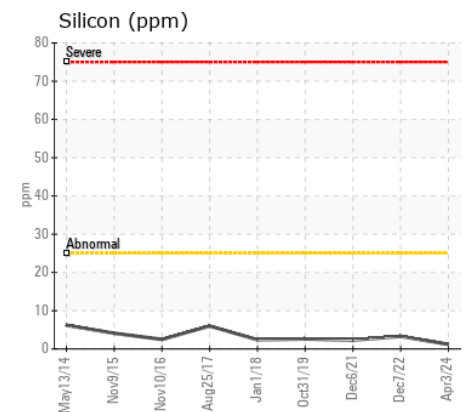
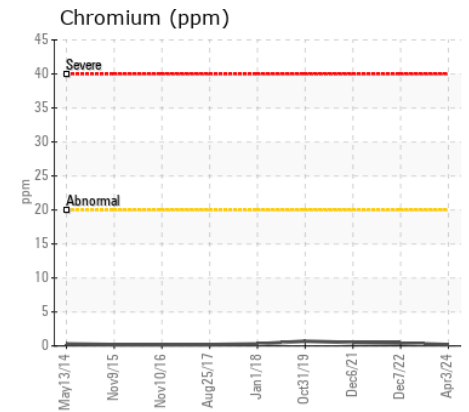
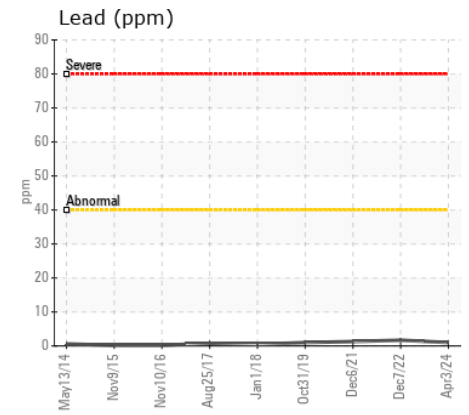
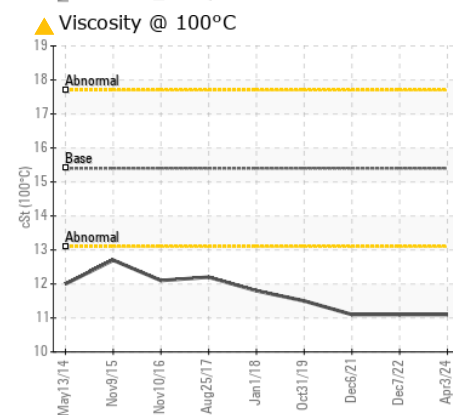
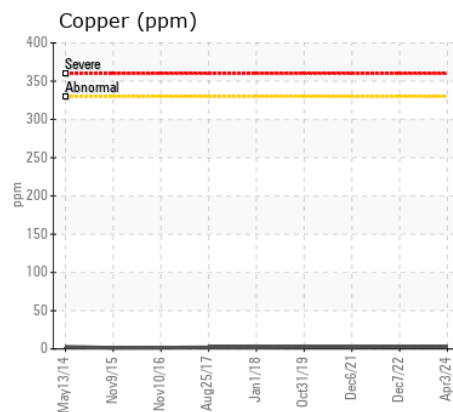
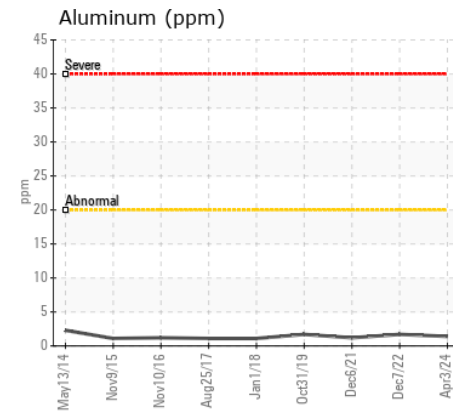
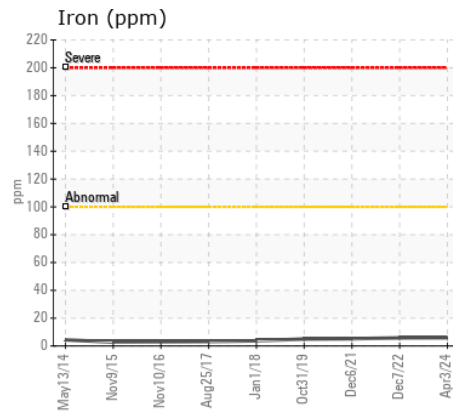
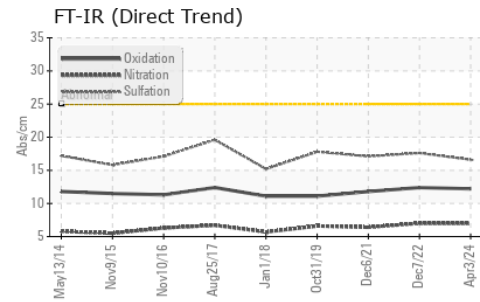
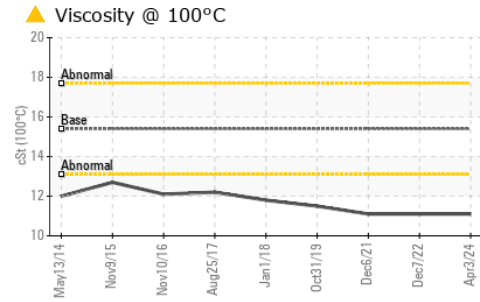
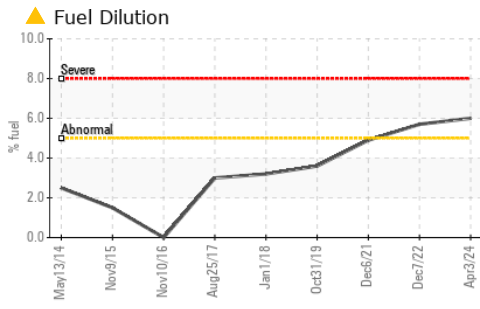
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185(m)	>25	1	3	2
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel	%	ASTM D7593*	>5	▲ 6	▲ 5.7	▲ 4.9
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	7.0	7.0	6.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	16.6	17.6	17.1
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	VLITE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>192	3	3	3
Boron	ppm	ASTM D5185(m)		24	23	16
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		45	48	41
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		621	652	767
Calcium	ppm	ASTM D5185(m)	3780	1456	1441	1260
Phosphorus	ppm	ASTM D5185(m)	1370	962	1024	990
Zinc	ppm	ASTM D5185(m)	1500	1114	1108	1119
Sulfur	ppm	ASTM D5185(m)	3800	2796	2841	2720
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.2	12.4	11.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	▲ 11.1	▲ 11.1	▲ 11.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005990 **Received** : 09 Apr 2024
Lab Number : 02627623 **Tested** : 10 Apr 2024
Unique Number : 5760755 **Diagnosed** : 10 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: 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.