MOB I

POWERStation
WWW.POWERSTATIONGENERATORS.COM
POWER GENERATION PRODUCTS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Machine Id
7 ELGIN ST, SCOTLAND 64R01380 BELL CANADA W04D-A30018
Component
Right Diesel Engine
Fluid
ESSO XD-3 EXTRA 15W40 (15 LTR)

RECOMMENDATION

We advise that you check the fuel injection system. 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.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

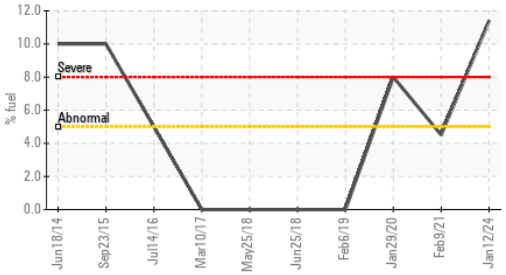
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

FLUID CONDITION

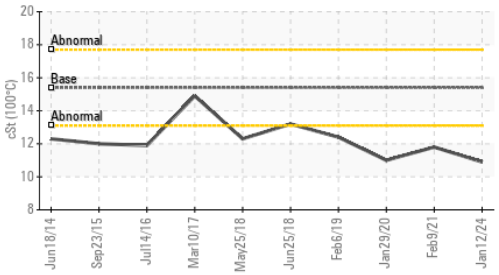
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005744	PN0002051	PN0000774
Sample Date		Client Info		12 Jan 2024	09 Feb 2021	29 Jan 2020
Machine Age	hrs	Client Info		347	277	251
Oil Age	hrs	Client Info		14	26	0
Filter Age	hrs	Client Info		14	26	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				SEVERE	ABNORMAL	SEVERE
Iron	ppm	ASTM D5185(m)	>100	2	2	2
Chromium	ppm	ASTM D5185(m)	>20	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	1	<1
Lead	ppm	ASTM D5185(m)	>40	3	2	1
Copper	ppm	ASTM D5185(m)	>330	44	40	38
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	---	---
Silicon	ppm	ASTM D5185(m)	>25	4	5	6
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel	%	ASTM D7593*	>5	⬢ 11.4	▲ 4.5	⬢ 8
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	7.5	6.4	5.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.0	20.2	24.3
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	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>192	2	3	2
Boron	ppm	ASTM D5185(m)		68	59	58
Barium	ppm	ASTM D5185(m)		0	<1	<1
Molybdenum	ppm	ASTM D5185(m)		76	46	35
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		37	326	450
Calcium	ppm	ASTM D5185(m)	3780	1871	1612	1481
Phosphorus	ppm	ASTM D5185(m)	1370	911	▲ 748	▲ 663
Zinc	ppm	ASTM D5185(m)	1500	998	▲ 902	▲ 779
Sulfur	ppm	ASTM D5185(m)	3800	2968	▲ 2454	▲ 1964
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.1	17.1	18.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	▲ 10.9	11.8	11.0

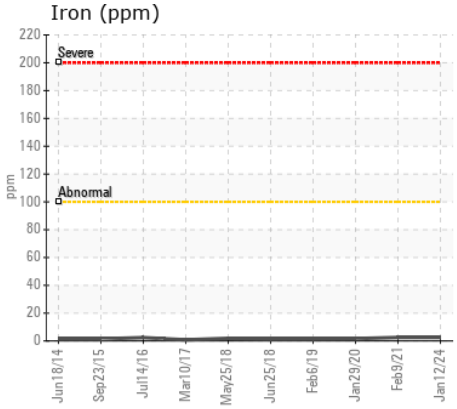
Fuel Dilution



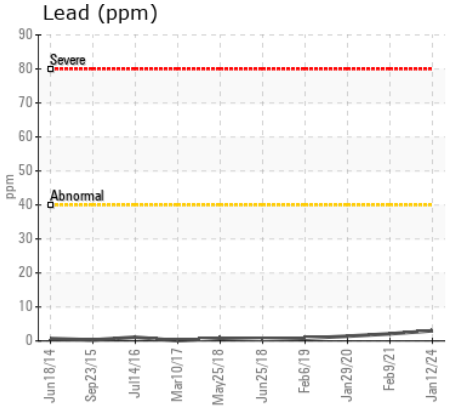
Viscosity @ 100°C



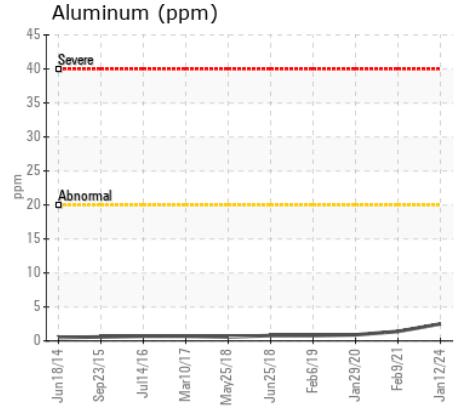
Iron (ppm)



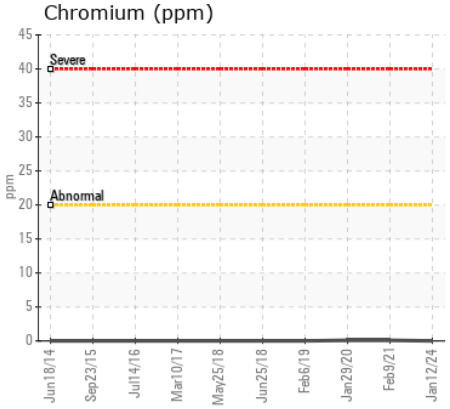
Lead (ppm)



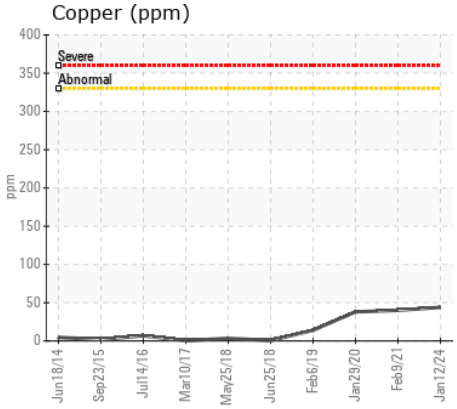
Aluminum (ppm)



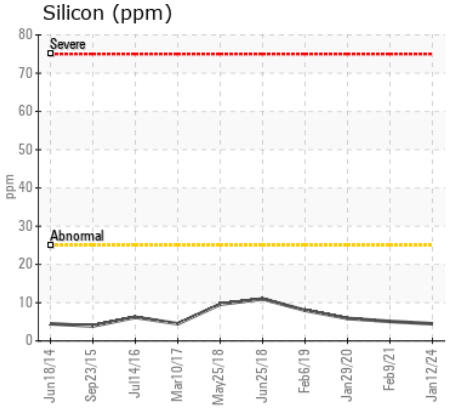
Chromium (ppm)



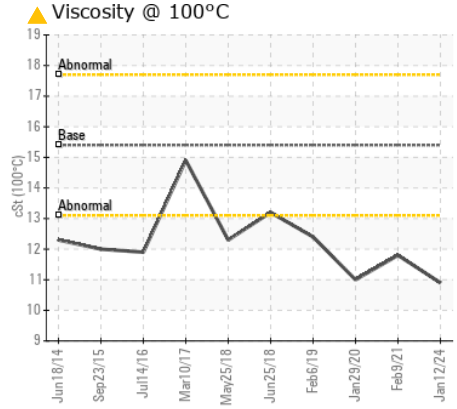
Copper (ppm)



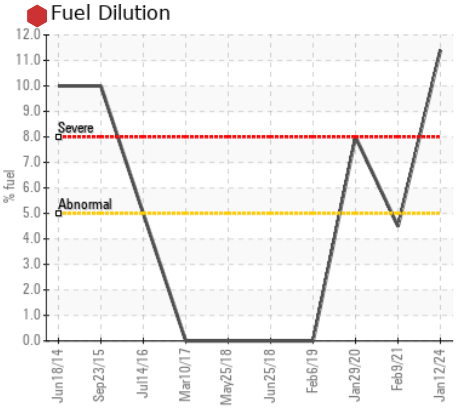
Silicon (ppm)



Viscosity @ 100°C



Fuel Dilution



ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9		
Sample No.	: PN0005744	**Recieved**	: 24 Jan 2024
Lab Number	: 02610865	**Diagnosed**	: 25 Jan 2024
Unique Number	: 5719960	**Diagnostician**	: Wes Davis
Test Package	: MOB 1 (Additional Tests: FuelDilution, PercentFuel, 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