



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**[84289]**  
 Machine Id  
**2051 OTTAWA ST KITCHENER BELL CANADA 2D-117476**  
 Component  
**Left Diesel Engine**  
 Fluid  
**ESSO XD-3 EXTRA 15W40 (15 LTR)**

**RECOMMENDATION**

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0005764</b>	PN0003779	PN0002239
Sample Date		Client Info		<b>15 Feb 2024</b>	04 Aug 2022	16 Mar 2021
Machine Age	hrs	Client Info		<b>973</b>	949	912
Oil Age	hrs	Client Info		<b>24</b>	37	0
Filter Age	hrs	Client Info		<b>24</b>	37	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	<b>2</b>	3	3
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	2	2
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	<1

**CONTAMINATION**

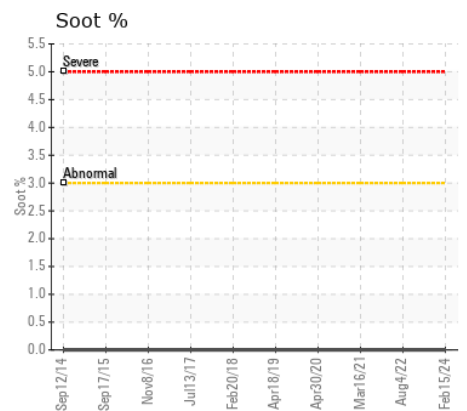
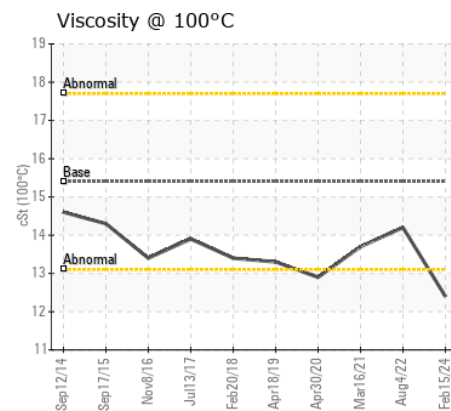
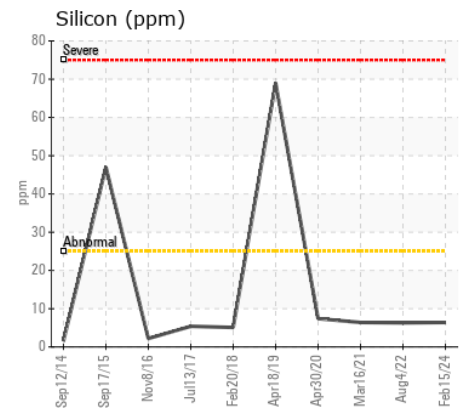
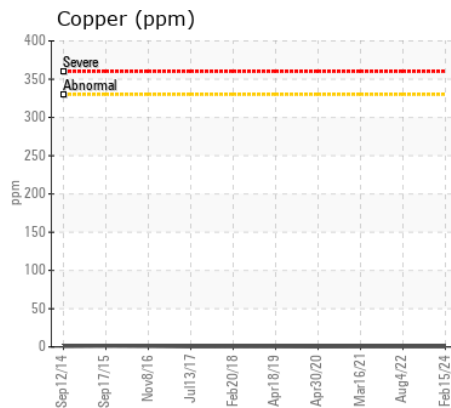
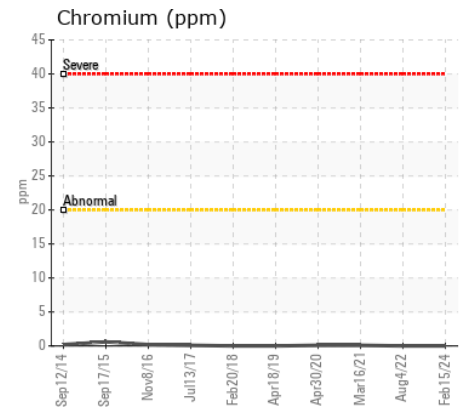
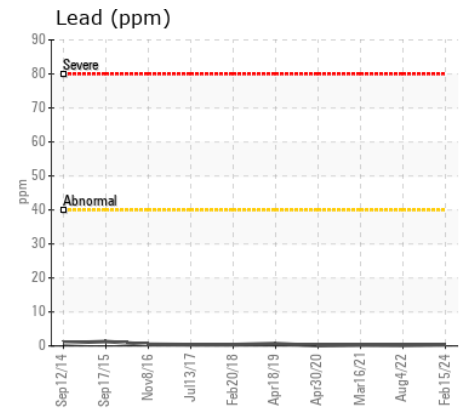
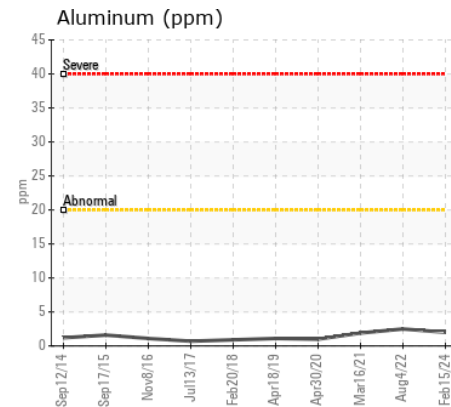
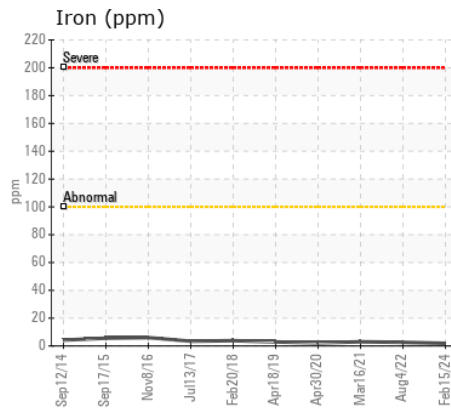
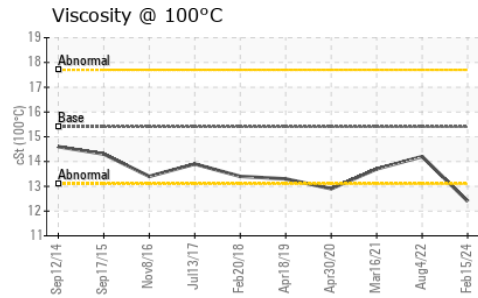
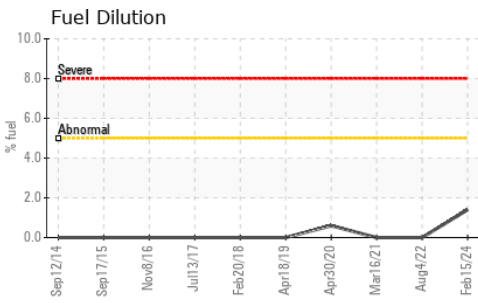
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>6</b>	6	6
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	<1	0
Fuel	%	ASTM D7593*	>5	<b>1.4</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>4.6</b>	7.4	6.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>14.0</b>	17.5	19.9
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>192	<b>1</b>	3	3
Boron	ppm	ASTM D5185(m)		<b>30</b>	66	60
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>24</b>	79	61
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>50</b>	76	232
Calcium	ppm	ASTM D5185(m)	3780	<b>2323</b>	2186	1862
Phosphorus	ppm	ASTM D5185(m)	1370	<b>1022</b>	956	857
Zinc	ppm	ASTM D5185(m)	1500	<b>1110</b>	1094	1041
Sulfur	ppm	ASTM D5185(m)	3800	<b>2898</b>	3175	2855
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>8.4</b>	13.8	16.3
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>12.4</b>	14.2	13.7



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005764  
**Lab Number** : 02616977  
**Unique Number** : 5734087  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel )

**Received** : 21 Feb 2024  
**Tested** : 22 Feb 2024  
**Diagnosed** : 22 Feb 2024 - Wes Davis

**POWER STATION INC.**  
 1050 JAYSON COURT  
 MISSISSAUGA, ON  
 CA L4W 2V5  
 Contact: Brett Kinkley  
 Bkinkley@pwrstn.com

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.

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