



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

Machine Id  
**56 MAIN STREET DUNDAS, BASEMENT GEN RM BELL CANADA PE6068L099899**

Component  
**Rear Diesel Engine**

Fluid  
**ESSO XD-3 EXTRA SAE 30 (40 LTR)**

**RECOMMENDATION**

Confirm the source of the lubricant being utilized for top-up/fill.  
 Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0005635</b>	PN0000908	PN0308306
Sample Date		Client Info		<b>12 Jan 2024</b>	25 Mar 2020	07 Feb 2019
Machine Age	hrs	Client Info		<b>416</b>	328	295
Oil Age	hrs	Client Info		<b>25</b>	34	23
Filter Age	hrs	Client Info		<b>25</b>	34	23
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)	>51	<b>2</b>	3	3
Chromium	ppm	ASTM D5185(m)	>11	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</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)	>31	<b>2</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>26	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185(m)	>26	<b>&lt;1</b>	<1	0
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

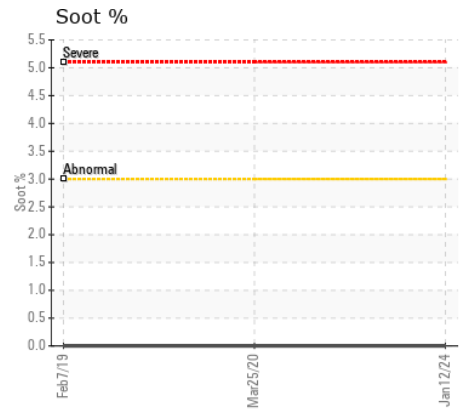
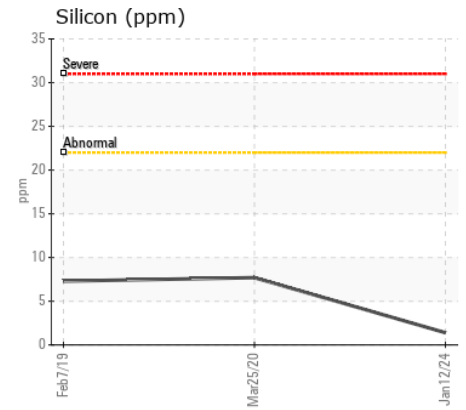
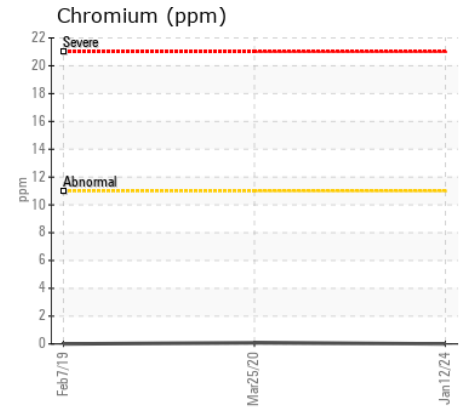
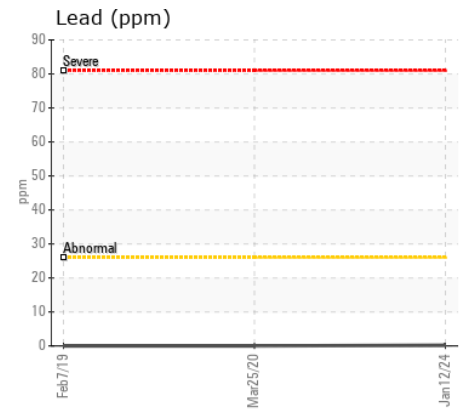
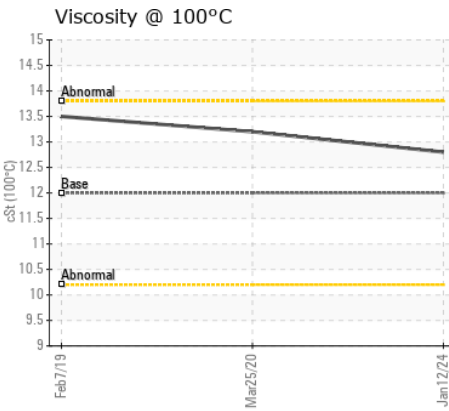
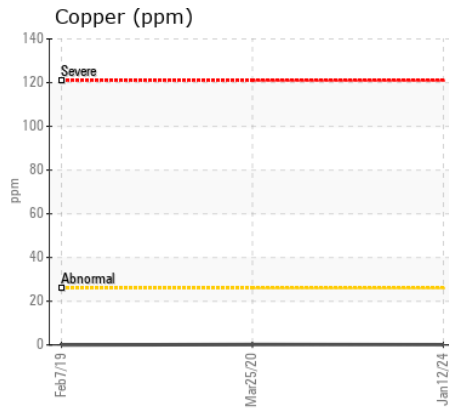
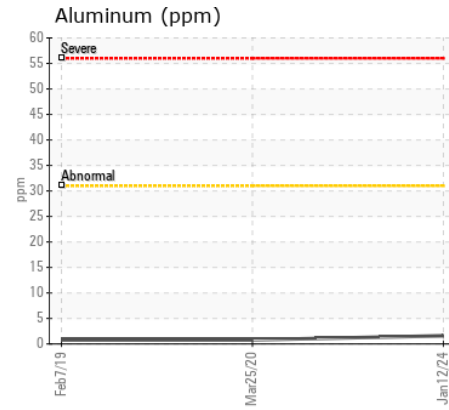
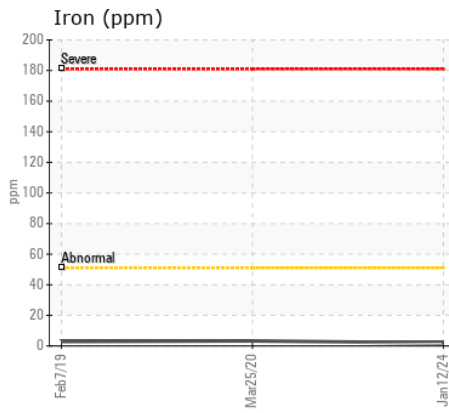
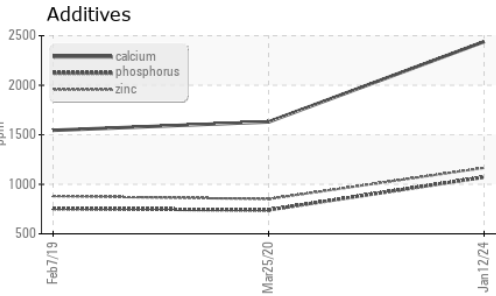
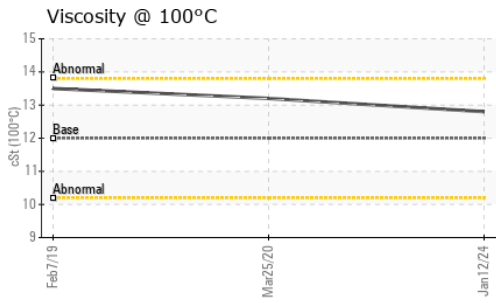
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	<b>1</b>	8	7
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	0
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.21	<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>3.7</b>	5.6	5.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>13.5</b>	25.4	21.6
Emulsified Water	scalar	Visual*	>0.21	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

Additive levels indicate the addition of a different brand, or type of oil.  
 The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>16	<b>&lt;1</b>	<1	2
Boron	ppm	ASTM D5185(m)		<b>23</b>	58	54
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>11</b>	41	39
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>30</b>	487	497
Calcium	ppm	ASTM D5185(m)	2550	<b>2440</b>	1630	1545
Phosphorus	ppm	ASTM D5185(m)	1000	<b>1072</b>	741	755
Zinc	ppm	ASTM D5185(m)	1120	<b>1166</b>	851	880
Sulfur	ppm	ASTM D5185(m)		<b>2938</b>	2095	2231
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>7.0</b>	19.1	19.3
Visc @ 100°C	cSt	ASTM D7279(m)	12.0	<b>12.8</b>	13.2	13.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005635 **Received** : 19 Jan 2024  
**Lab Number** : 02609883 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 5710969 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

**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.