



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

Machine Id  
**1355 WINDING TRAIL MISSISSAUGA, FIRE STATION 106 CITY OF MISSISSAUGA PE5030L076019**

Component  
**Rear Diesel Engine**

Fluid  
**ESSO XD-3 EXTRA 15W40 (10 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0005732</b>	PN0306119	PN102844
Sample Date		Client Info		<b>11 Jan 2024</b>	03 Dec 2018	14 Sep 2017
Machine Age	hrs	Client Info		<b>322</b>	148	117
Oil Age	hrs	Client Info		<b>281</b>	32	0
Filter Age	hrs	Client Info		<b>281</b>	32	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changd</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>	4	9
Chromium	ppm	ASTM D5185(m)	>11	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>31	<b>2</b>	1	2
Lead	ppm	ASTM D5185(m)	>26	<b>1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>26	<b>&lt;1</b>	<1	4
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

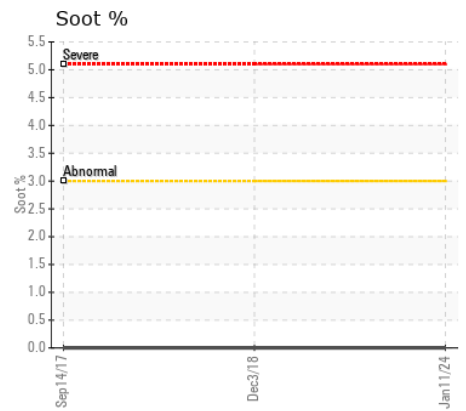
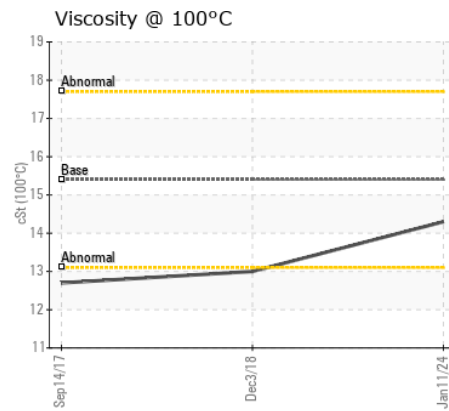
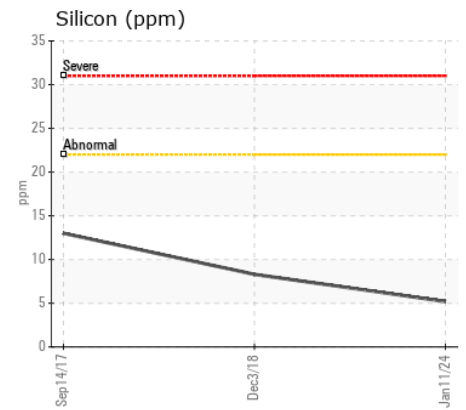
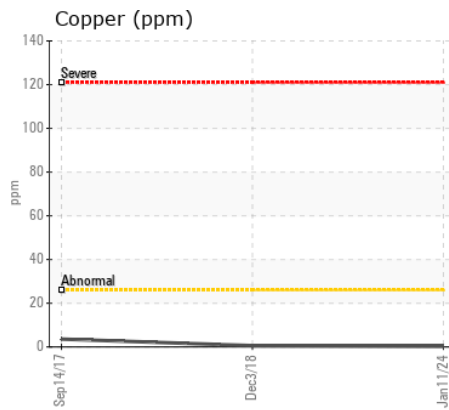
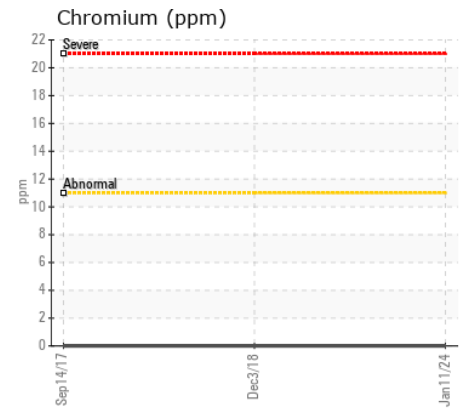
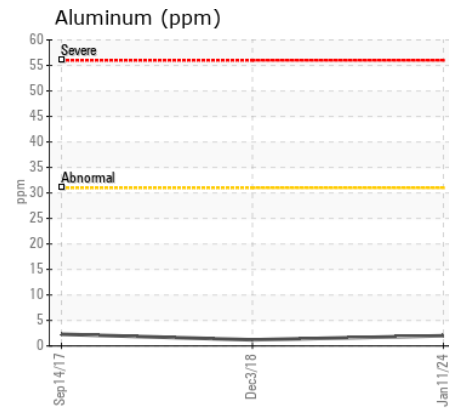
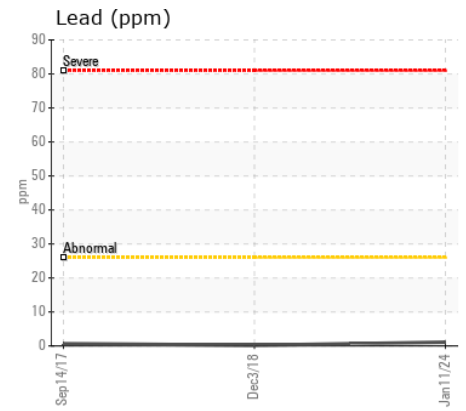
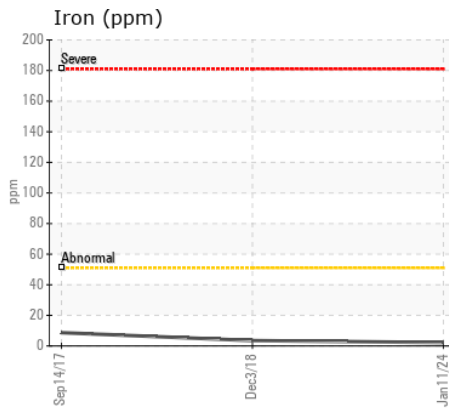
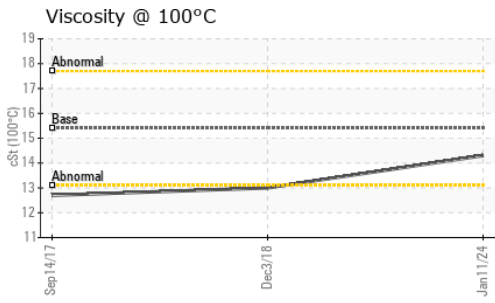
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	<b>5</b>	8	13
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	2
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	1.5
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>7.4</b>	5.2	6.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.4</b>	21.8	22.0
Emulsified Water	scalar	Visual*	>0.21	<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>&lt;1</b>	3	9
Boron	ppm	ASTM D5185(m)		<b>65</b>	55	52
Barium	ppm	ASTM D5185(m)		<b>0</b>	<1	8
Molybdenum	ppm	ASTM D5185(m)		<b>14</b>	37	47
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>34</b>	429	177
Calcium	ppm	ASTM D5185(m)	3780	<b>2088</b>	1636	2108
Phosphorus	ppm	ASTM D5185(m)	1370	<b>1002</b>	726	963
Zinc	ppm	ASTM D5185(m)	1500	<b>1105</b>	863	1123
Sulfur	ppm	ASTM D5185(m)	3800	<b>3432</b>	2244	3249
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.2</b>	19.3	13.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.3</b>	13.0	12.7



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005732 **Received** : 16 Jan 2024  
**Lab Number** : 02608963 **Diagnosed** : 16 Jan 2024  
**Unique Number** : 5710049 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

**POWER STATION INC.**  
 1050 JAYSON COURT  
 MISSISSAUGA, ON  
 CA L4W 2V5  
 Contact: Ryan Udall  
 rudall@pwrstn.com  
 T: (905)565-1621  
 F: (905)629-1499

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.