



Machine Id  
**130 RIDELLE ST TORONTO BELL CANADA 5362010463**

Component  
**Rear Diesel Engine**

Fluid  
**ESSO XD-3 EXTRA 15W40 (120 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		<b>PN0005806</b>	PN0004076	PN0002627
Sample Date		Client Info		<b>05 Mar 2024</b>	22 Sep 2022	26 Jul 2021
Machine Age	hrs	Client Info		<b>402</b>	370	340
Oil Age	hrs	Client Info		<b>32</b>	0	0
Filter Age	hrs	Client Info		<b>32</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	MARGINAL	MARGINAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	<b>7</b>	5	10
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	3	1
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	<1	2
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

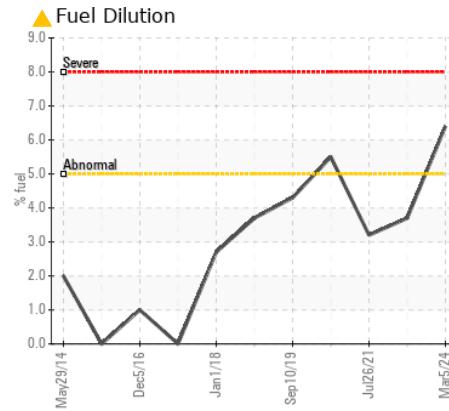
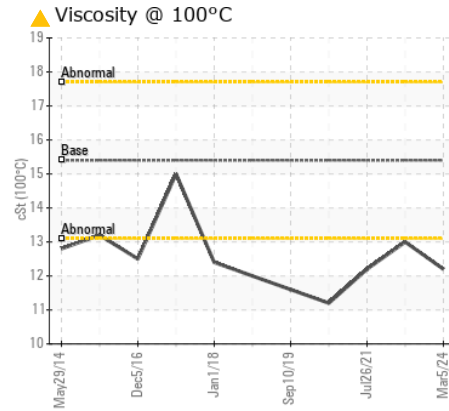
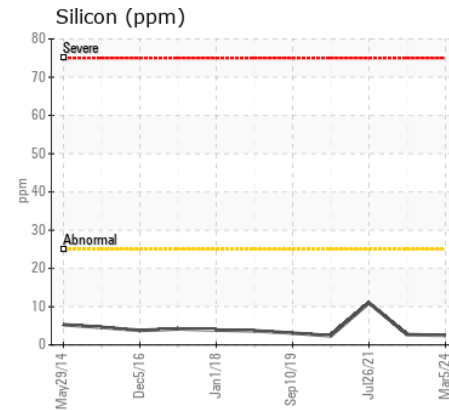
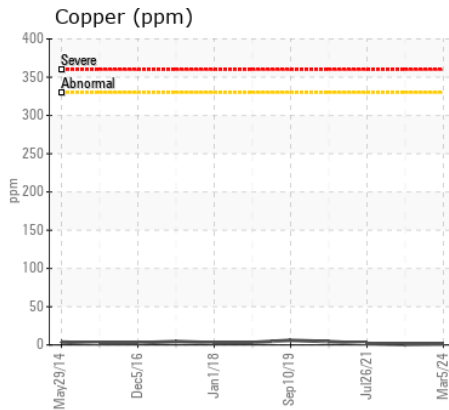
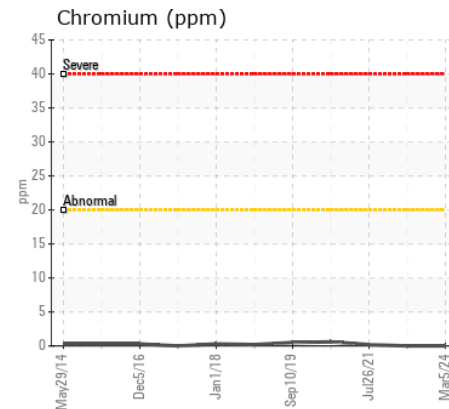
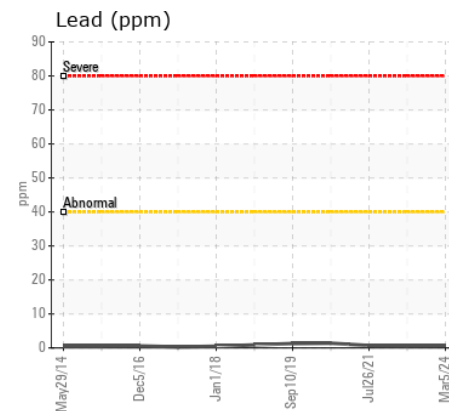
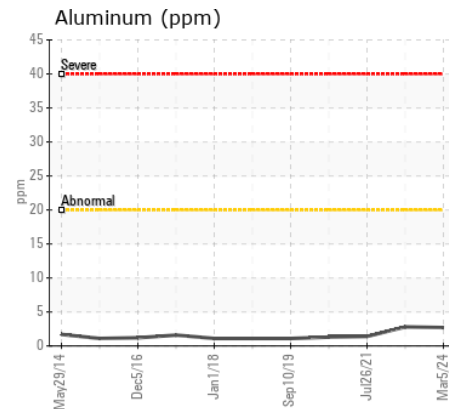
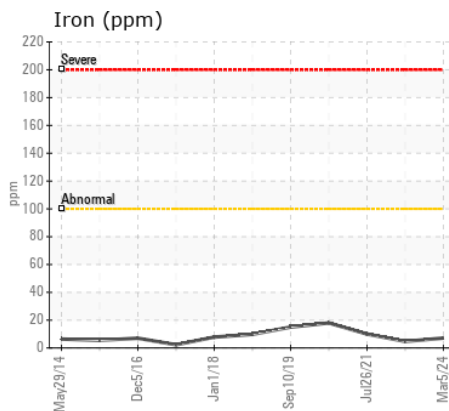
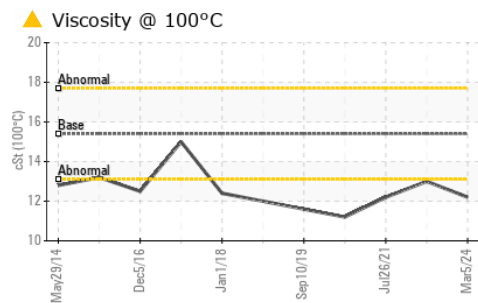
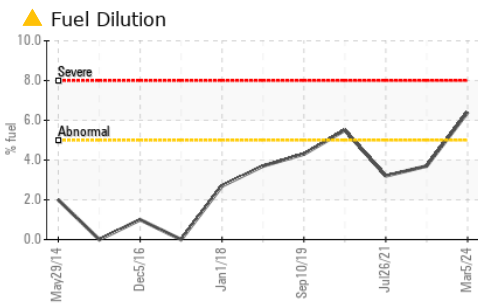
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	3	11
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	0	<1
Fuel	%	ASTM D7593*	>5	<b>▲ 6.4</b>	▲ 3.7	▲ 3.2
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>7.5</b>	7.6	6.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.3</b>	17.9	19.8
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**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.

Sodium	ppm	ASTM D5185(m)	>192	<b>2</b>	3	4
Boron	ppm	ASTM D5185(m)		<b>62</b>	69	49
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>73</b>	79	47
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>76</b>	83	455
Calcium	ppm	ASTM D5185(m)	3780	<b>2034</b>	2107	1615
Phosphorus	ppm	ASTM D5185(m)	1370	<b>962</b>	1059	888
Zinc	ppm	ASTM D5185(m)	1500	<b>1060</b>	1104	998
Sulfur	ppm	ASTM D5185(m)	3800	<b>3154</b>	3151	2539
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.5</b>	13.9	16.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>▲ 12.2</b>	13.0	12.2



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005806 **Received** : 07 Mar 2024  
**Lab Number** : 02620462 **Tested** : 08 Mar 2024  
**Unique Number** : 5737572 **Diagnosed** : 08 Mar 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel )

**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.