



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

Machine Id  
**530 KIPLING AVE OUTSIDE ON ROOF FRONTIER NETWORKS 408326**

Component  
**Rear Diesel Engine**

Fluid  
**ESSO XD-3 EXTRA 15W40 (40 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0005817</b>	PN0004412	PN0001311
Sample Date		Client Info		<b>29 Feb 2024</b>	09 Jan 2023	23 Jul 2020
Machine Age	hrs	Client Info		<b>69</b>	67	60
Oil Age	hrs	Client Info		<b>2</b>	0	5
Filter Age	hrs	Client Info		<b>2</b>	0	5
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
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>	4	5
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
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>1</b>	2	1
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>&lt;1</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**

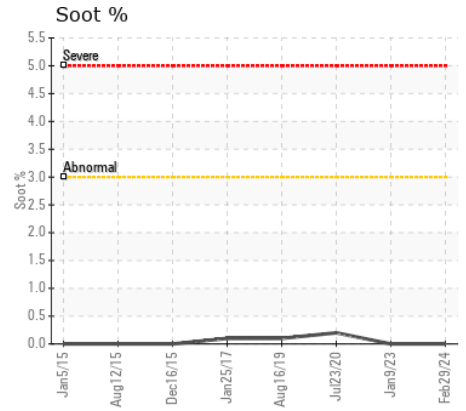
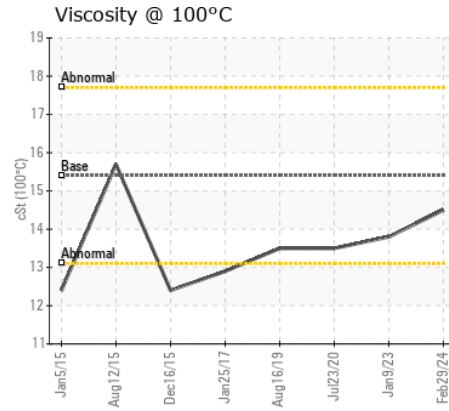
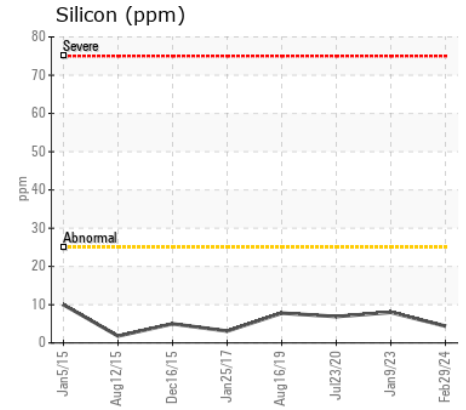
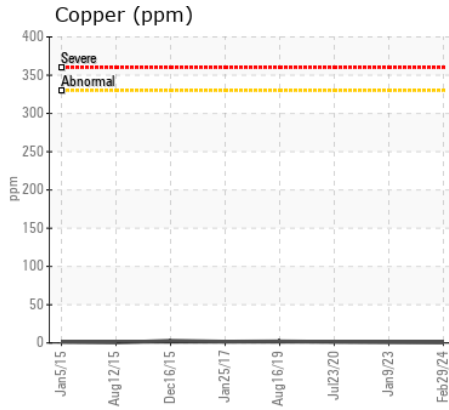
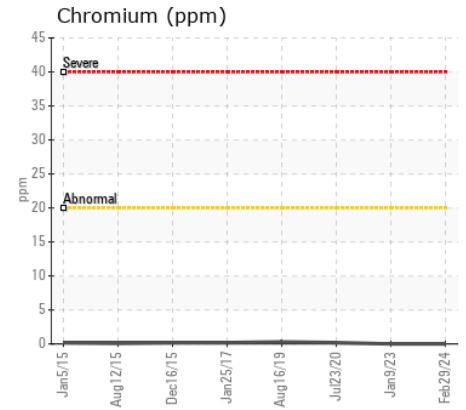
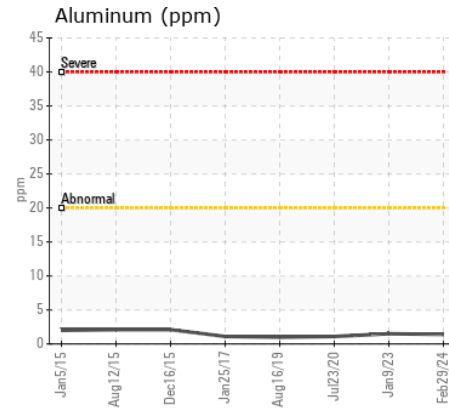
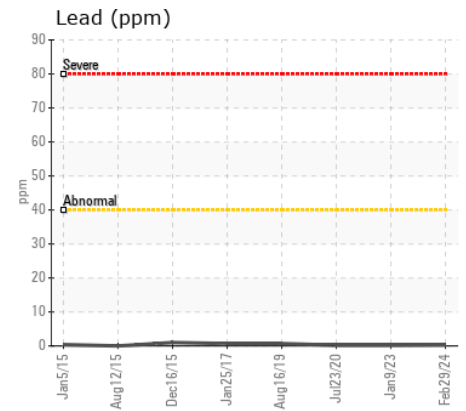
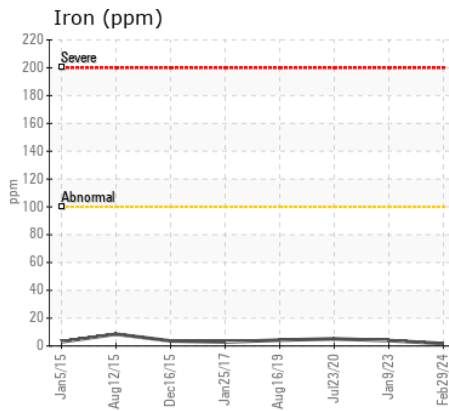
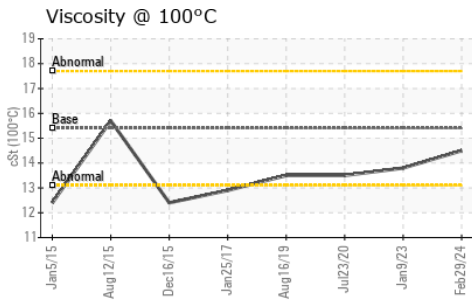
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>4</b>	8	7
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1
Fuel		WC Method	>5	<b>&lt;1.0</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	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.8</b>	5.8	5.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.3</b>	22.7	22.3
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>&lt;1</b>	2	<1
Boron	ppm	ASTM D5185(m)		<b>65</b>	65	58
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>10</b>	43	38
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>94</b>	412	496
Calcium	ppm	ASTM D5185(m)	3780	<b>1954</b>	1733	1558
Phosphorus	ppm	ASTM D5185(m)	1370	<b>952</b>	809	731
Zinc	ppm	ASTM D5185(m)	1500	<b>1048</b>	864	841
Sulfur	ppm	ASTM D5185(m)	3800	<b>3317</b>	2214	2055
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>12.8</b>	18.5	19.3
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.5</b>	13.8	13.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005817  
**Lab Number** : 02620467  
**Unique Number** : 5737577  
**Test Package** : MOB 1  
**Received** : 07 Mar 2024  
**Tested** : 07 Mar 2024  
**Diagnosed** : 07 Mar 2024 - Wes Davis

**POWER STATION INC.**  
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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.