



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

Area

[85305]

Machine Id

200 TRETHERWEY DR TORONTO CITY OF TORONTO - 12 DIVISON EBP0A301828

Component

Right Diesel Engine

Fluid

ESSO XD-3 EXTRA 15W40 (20 LTR)

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PN0006100</b>	PN0004642	PN0003240
Sample Date		Client Info		<b>30 Apr 2024</b>	20 Apr 2023	22 Apr 2022
Machine Age	hrs	Client Info		<b>0</b>	270	257
Oil Age	hrs	Client Info		<b>0</b>	13	13
Filter Age	hrs	Client Info		<b>0</b>	13	13
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**

All component wear rates are normal.

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

**CONTAMINATION**

There is no indication of any contamination in the oil.

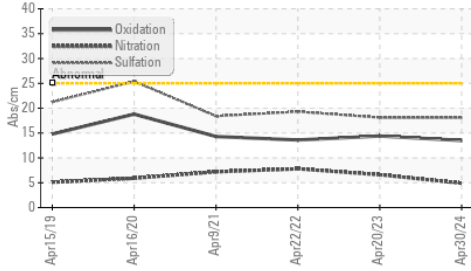
Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	6	6
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>4.9</b>	6.6	7.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.1</b>	18.1	19.3
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

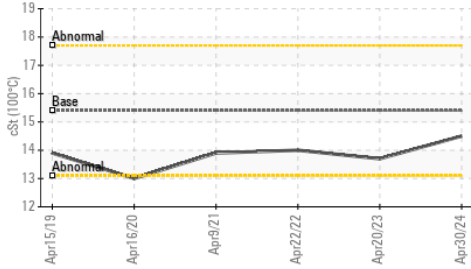
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>192	<b>1</b>	2	2
Boron	ppm	ASTM D5185(m)		<b>10</b>	62	75
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>60</b>	67	84
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185(m)		<b>920</b>	188	28
Calcium	ppm	ASTM D5185(m)	3780	<b>1102</b>	2015	2166
Phosphorus	ppm	ASTM D5185(m)	1370	<b>1006</b>	1008	1034
Zinc	ppm	ASTM D5185(m)	1500	<b>1166</b>	1058	1157
Sulfur	ppm	ASTM D5185(m)	3800	<b>2629</b>	2934	3251
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.5</b>	14.4	13.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>14.5</b>	13.7	14.0

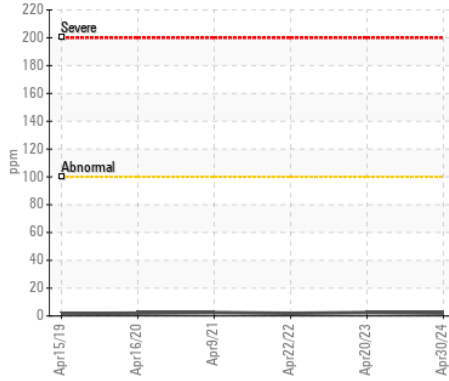
FT-IR (Direct Trend)



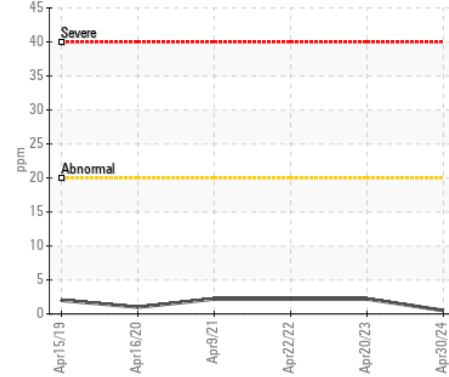
Viscosity @ 100°C



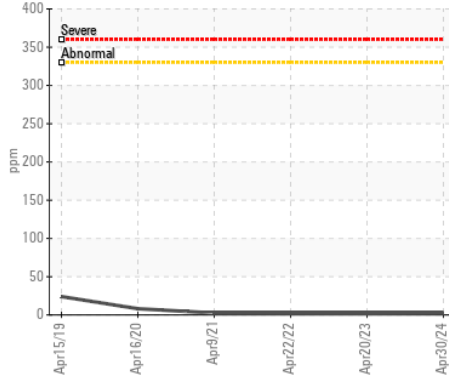
Iron (ppm)



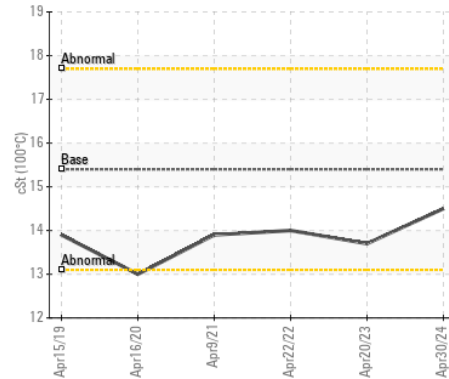
Aluminum (ppm)



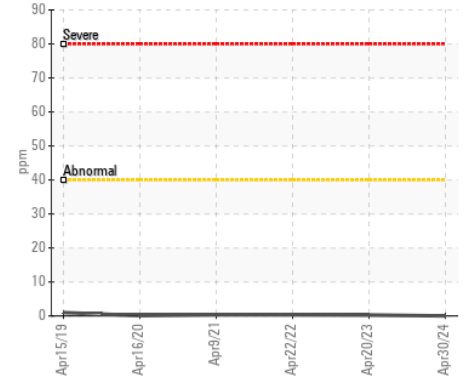
Copper (ppm)



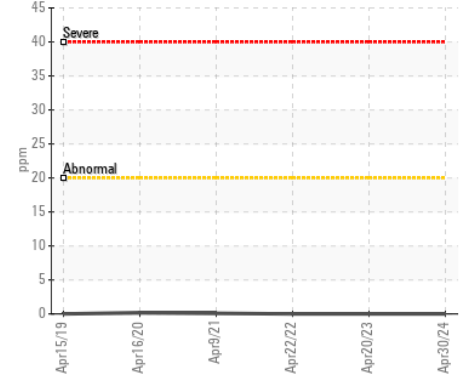
Viscosity @ 100°C



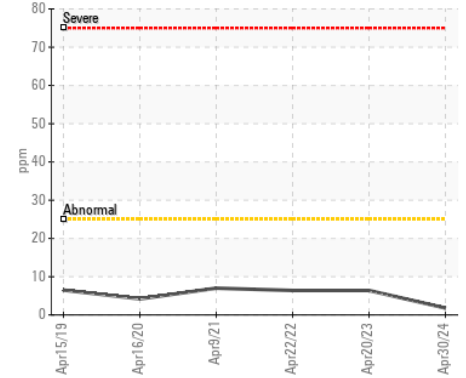
Lead (ppm)



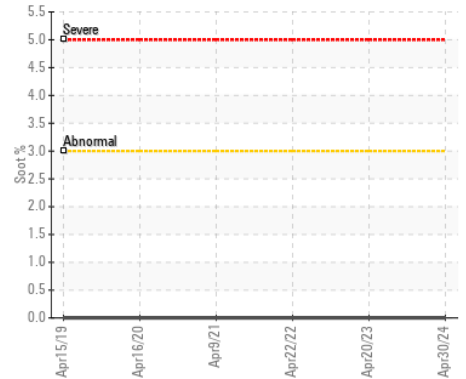
Chromium (ppm)



Silicon (ppm)



Soot %



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006100 **Received** : 06 May 2024  
**Lab Number** : 02633439 **Tested** : 06 May 2024  
**Unique Number** : 5774592 **Diagnosed** : 06 May 2024 - Wes Davis  
**Test Package** : MOB 1

**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.