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POWERStation
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POWER GENERATION PRODUCTS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[85928]
Machine Id
1038 LORNE ST SUDBURY MOD#4502746 BELL CANADA U590903K
Component
Rear Diesel Engine
Fluid
ESSO XD-3 EXTRA 15W40 (109 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

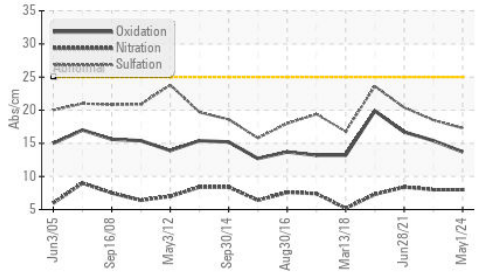
There is no indication of any contamination in the oil.

FLUID CONDITION

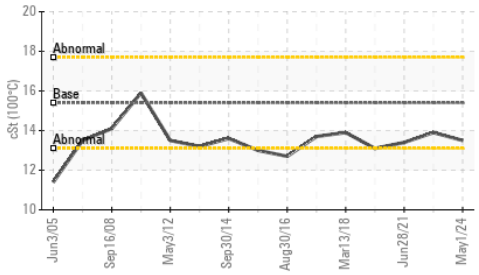
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006167	PN0003816	PN0002394
Sample Date		Client Info		01 May 2024	28 Jul 2022	28 Jun 2021
Machine Age	hrs	Client Info		1094	1065	893
Oil Age	hrs	Client Info		1065	0	87
Filter Age	hrs	Client Info		1065	0	87
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>250	2	3	5
Chromium	ppm	ASTM D5185(m)	>10	0	0	<1
Nickel	ppm	ASTM D5185(m)	>5	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>35	2	2	1
Lead	ppm	ASTM D5185(m)	>100	0	0	<1
Copper	ppm	ASTM D5185(m)	>60	1	1	2
Tin	ppm	ASTM D5185(m)	>5	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>35	3	5	4
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	8.0	8.0	8.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.3	18.5	20.4
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>192	1	3	3
Boron	ppm	ASTM D5185(m)		69	71	79
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		14	75	12
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		54	118	700
Calcium	ppm	ASTM D5185(m)	3780	2107	2117	1345
Phosphorus	ppm	ASTM D5185(m)	1370	963	969	762
Zinc	ppm	ASTM D5185(m)	1500	1114	1093	821
Sulfur	ppm	ASTM D5185(m)	3800	3047	3119	2468
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.7	15.4	16.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.5	13.9	13.4

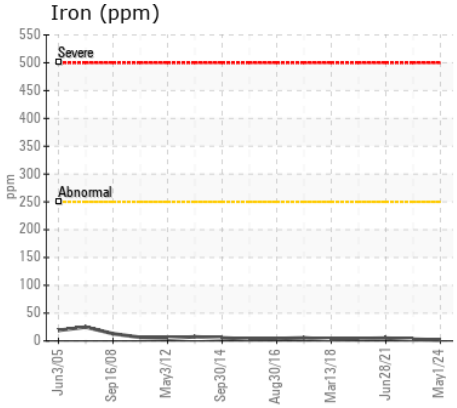
FT-IR (Direct Trend)



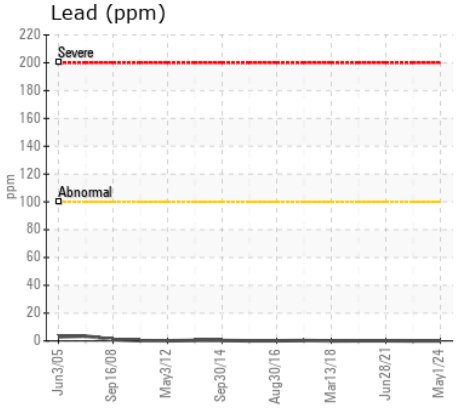
Viscosity @ 100°C



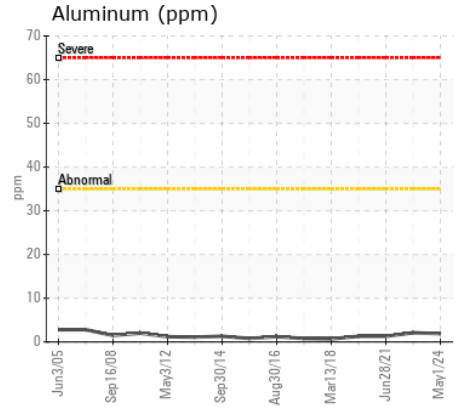
Iron (ppm)



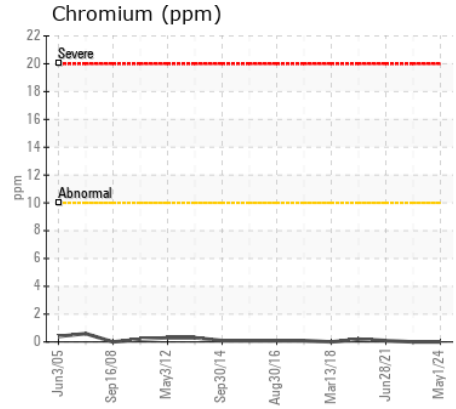
Lead (ppm)



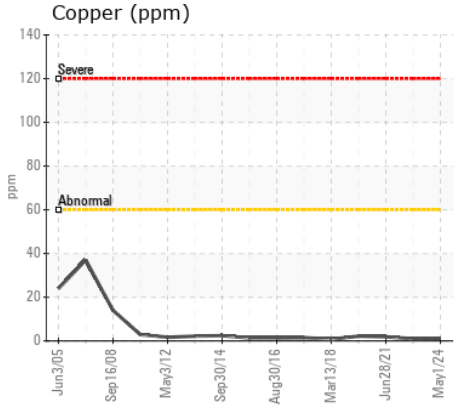
Aluminum (ppm)



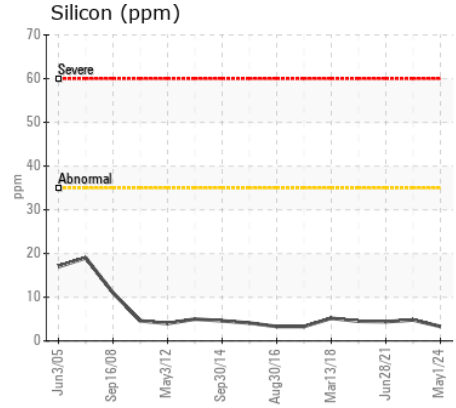
Chromium (ppm)



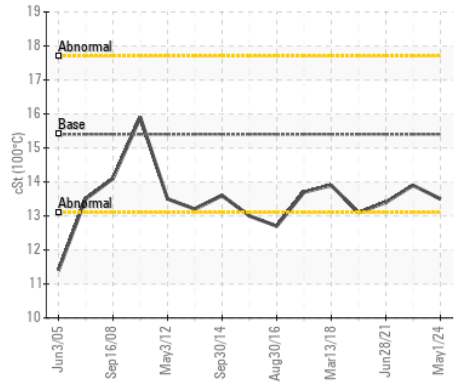
Copper (ppm)



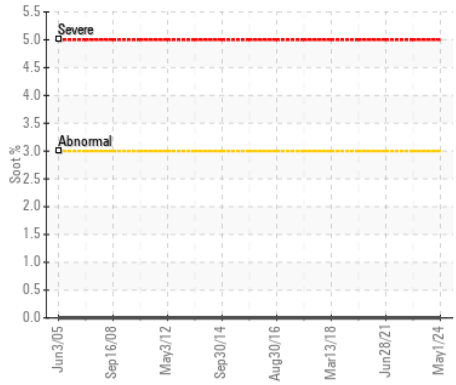
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006167
Lab Number : 02633789
Unique Number : 5774942
Test Package : MOB 1

Received : 07 May 2024
Tested : 07 May 2024
Diagnosed : 07 May 2024 - Kevin Marson

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.

POWER STATION INC.
1050 JAYSON COURT
MISSISSAUGA, ON
CA L4W 2V5
Contact: Brett Kinkley
Bkinkley@pwrstn.com
T:
F: (905)565-8544