



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
9 HIGH ST HUNTSVILLE BELL CANADA BASEMENT
 Component
Right Diesel Engine
 Fluid
ESSO XD-3 EXTRA SAE 30 (20 LTR)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
 Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006087	PN0004396	PN0002987
Sample Date		Client Info		19 Apr 2024	03 Jan 2023	03 Nov 2021
Machine Age	hrs	Client Info		646	636	819
Oil Age	hrs	Client Info		10	0	14
Filter Age	hrs	Client Info		10	0	14
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	MARGINAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>125	2	3	3
Chromium	ppm	ASTM D5185(m)	>5	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>10	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>12	<1	2	2
Copper	ppm	ASTM D5185(m)	>45	2	2	2
Tin	ppm	ASTM D5185(m)	>20	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

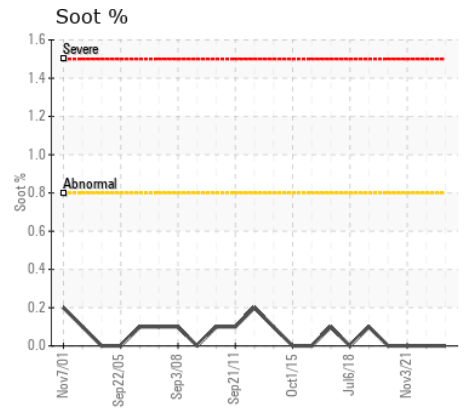
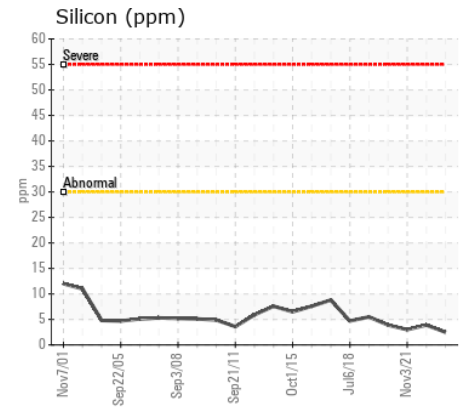
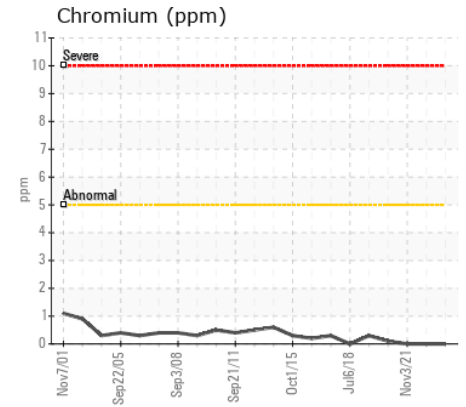
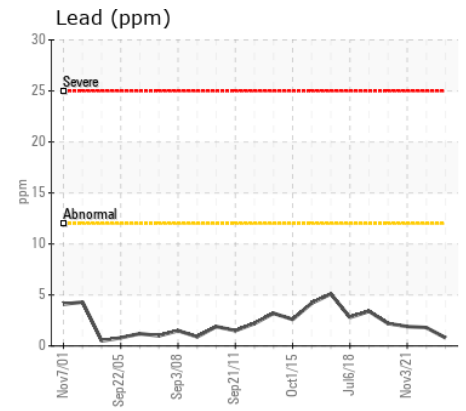
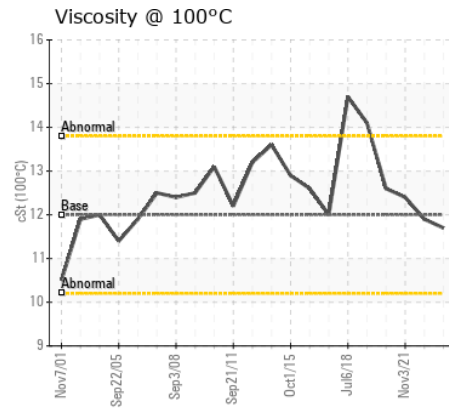
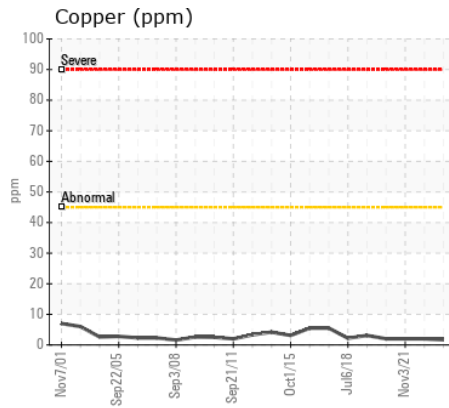
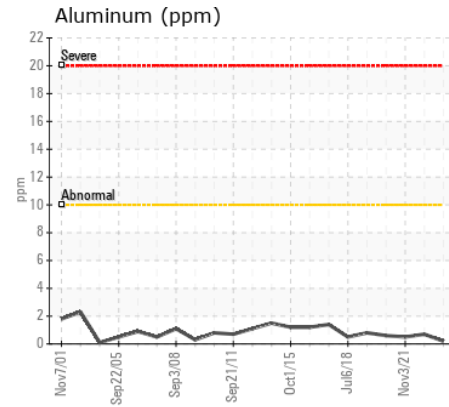
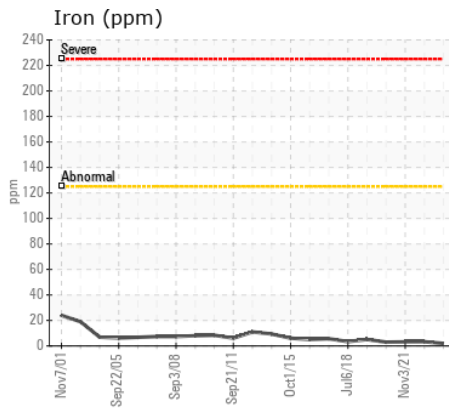
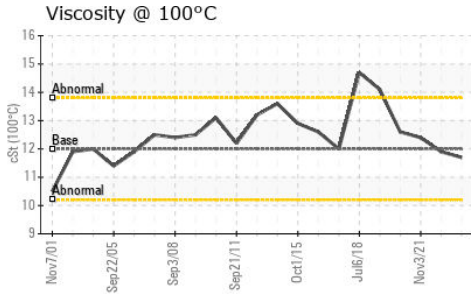
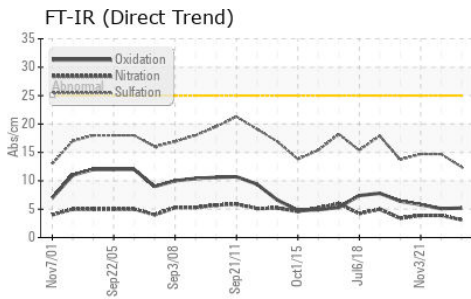
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	2	4	3
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	2
Fuel		WC Method	>3.0	<1.0	▲ 4	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>0.8	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	3.1	3.9	3.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	12.4	14.7	14.7
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil.
 The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>16	3	5	6
Boron	ppm	ASTM D5185(m)		2	9	14
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		1	8	15
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		697	26	34
Calcium	ppm	ASTM D5185(m)	2550	1462	3645	3071
Phosphorus	ppm	ASTM D5185(m)	1000	926	718	732
Zinc	ppm	ASTM D5185(m)	1120	1055	713	789
Sulfur	ppm	ASTM D5185(m)		2392	2374	2205
Oxidation	Abs/.1mm	ASTM D7414*	>25	5.2	5.1	5.8
Visc @ 100°C	cSt	ASTM D7279(m)	12.0	11.7	11.9	12.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006087
Lab Number : 02631519
Unique Number : 5772672
Test Package : MOB 1

Received : 26 Apr 2024
Tested : 26 Apr 2024
Diagnosed : 26 Apr 2024 - Wes Davis

POWER STATION INC.
 1050 JAYSON COURT
 MISSISSAUGA, ON
 CA L4W 2V5
 Contact: Brett Kinkley
 Bkinkley@pwrstn.com
 T:
 F: (905)665-8544

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.