



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

Area

[83416]

Machine Id

8950 HUNTINGTON RD WOODBRIDGE / FIRE PUMP VIKING FIRE 6090HFC48

Component

Right Diesel Engine

Fluid

ESSO XD-3 EXTRA 15W40 (30 LTR)

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005750	PN0004194	PN0002938
Sample Date		Client Info		02 Jan 2024	15 Dec 2022	08 Nov 2021
Machine Age	hrs	Client Info		145	145	132
Oil Age	hrs	Client Info		0	13	0
Filter Age	hrs	Client Info		0	13	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>51	1	3	5
Chromium	ppm	ASTM D5185(m)	>11	0	0	0
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)	>31	2	3	2
Lead	ppm	ASTM D5185(m)	>26	0	<1	0
Copper	ppm	ASTM D5185(m)	>26	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

**CONTAMINATION**

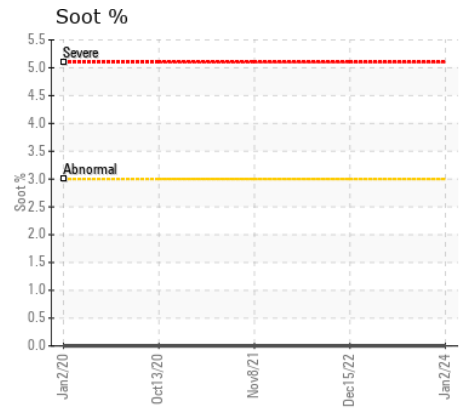
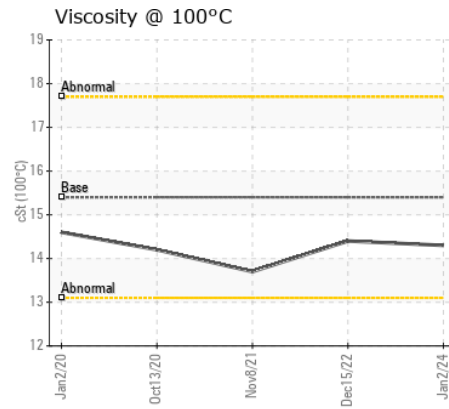
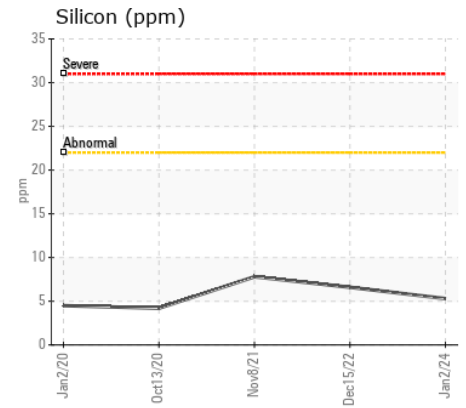
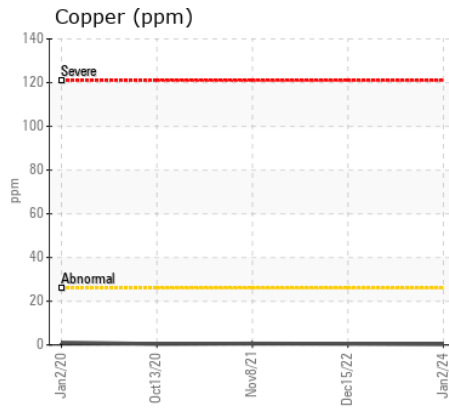
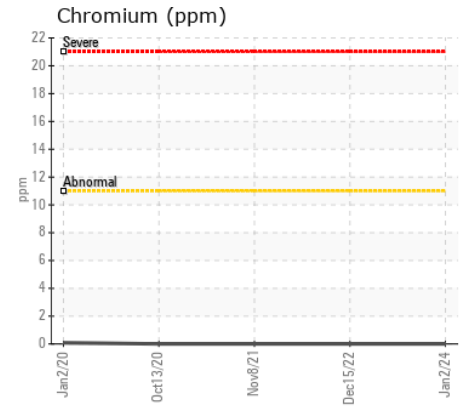
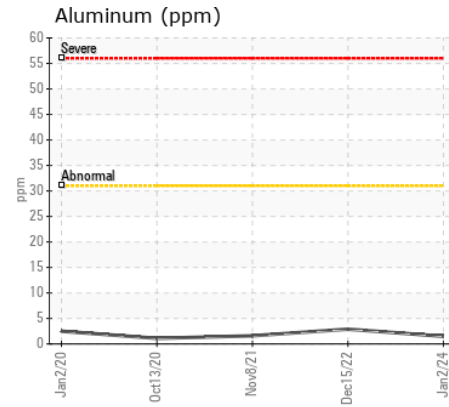
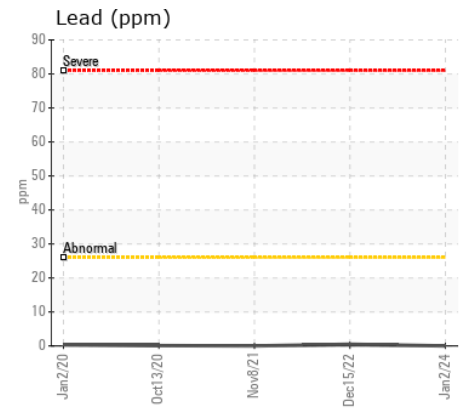
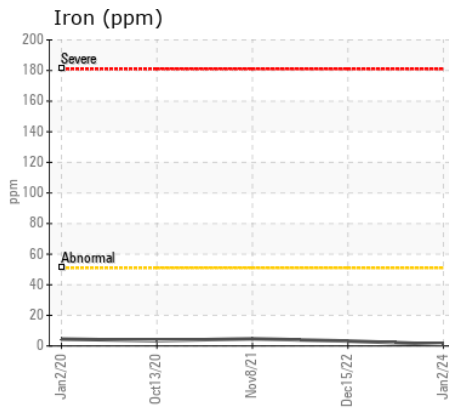
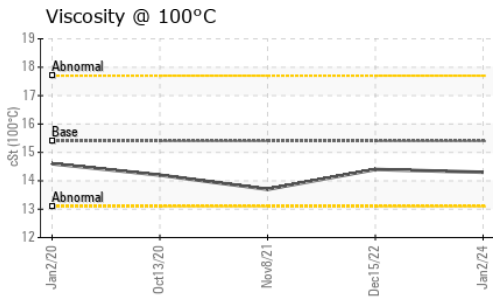
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	5	7	8
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	6.4	7.6	6.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	16.8	19.1	21.6
Emulsified Water	scalar	Visual*	>0.21	NEG	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)	>192	1	2	2
Boron	ppm	ASTM D5185(m)		59	71	70
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		24	82	48
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		206	73	434
Calcium	ppm	ASTM D5185(m)	3780	1745	2153	1764
Phosphorus	ppm	ASTM D5185(m)	1370	935	1055	869
Zinc	ppm	ASTM D5185(m)	1500	1066	1119	951
Sulfur	ppm	ASTM D5185(m)	3800	3206	3131	2508
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.0	13.9	17.2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.3	14.4	13.7



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0005750 **Received** : 08 Jan 2024  
**Lab Number** : 02606980 **Diagnosed** : 08 Jan 2024  
**Unique Number** : 5708066 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

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

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.