



WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL

Area
[83331]
 Machine Id
180 SIMCOE ST. TORONTO PH/ROOF P2 IGM FINANCIAL 10591
 Component
Rear Diesel Engine
 Fluid
ESSO XD-3 EXTRA 15W40 (140 LTR)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005726	PN0004425	PN0003097
Sample Date		Client Info		18 Dec 2023	19 Dec 2022	20 Dec 2021
Machine Age	hrs	Client Info		129	110	92
Oil Age	hrs	Client Info		107	15	5
Filter Age	hrs	Client Info		107	15	5
Oil Changed		Client Info		Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	Changed
Sample Status				MARGINAL	ABNORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	1	2	2
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	2
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<1	1	1
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

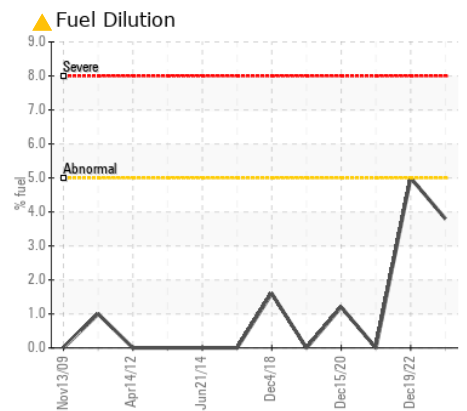
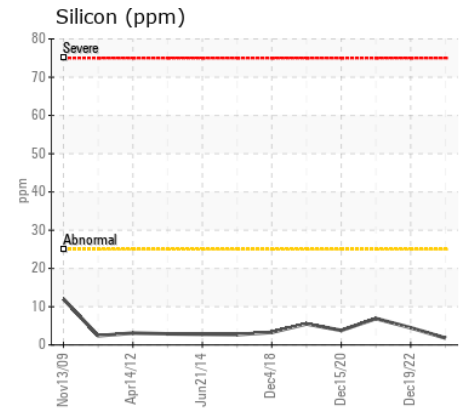
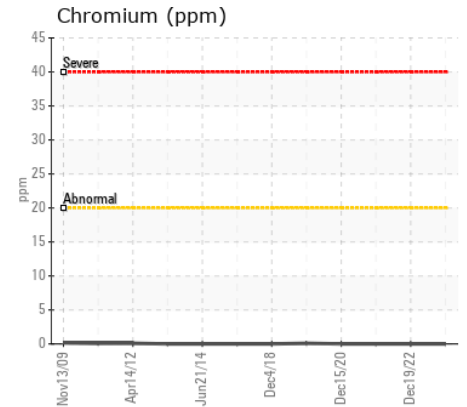
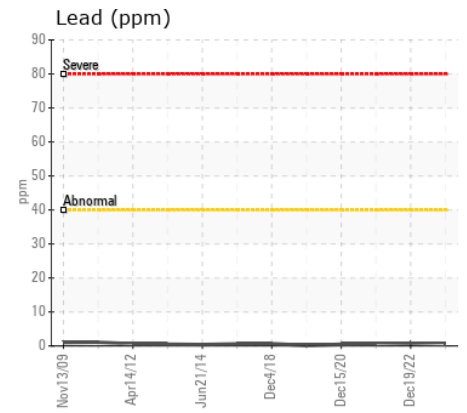
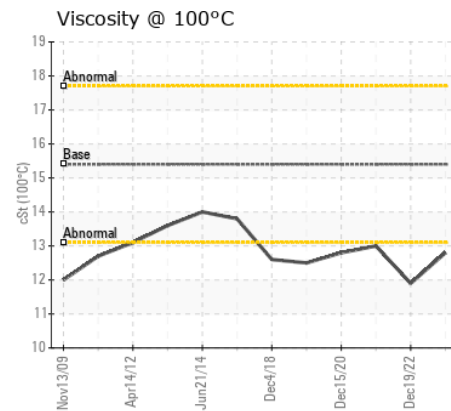
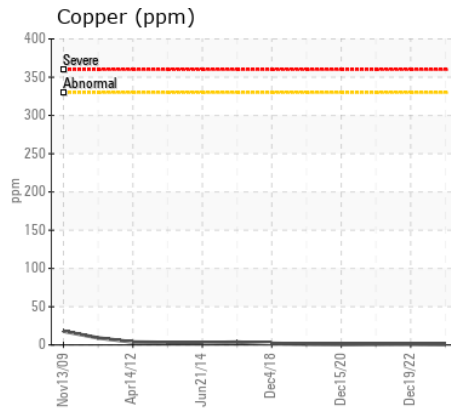
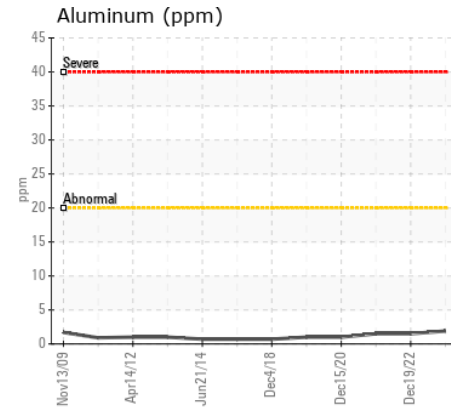
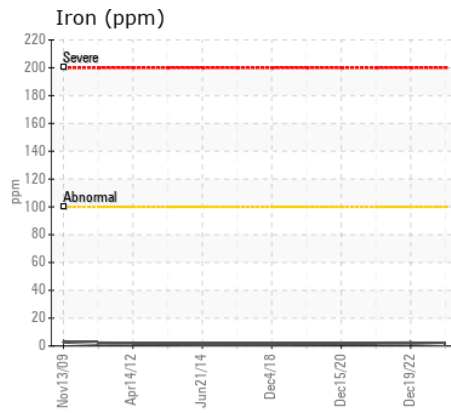
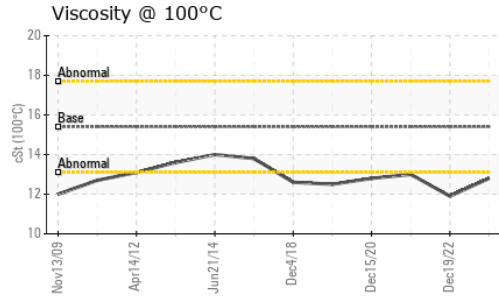
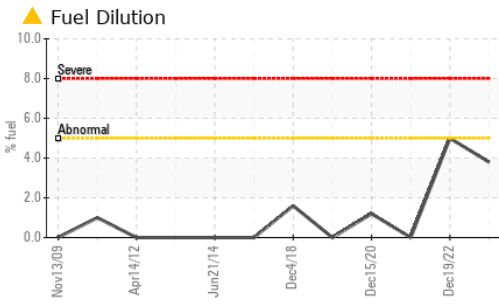
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	4	7
Potassium	ppm	ASTM D5185(m)	>20	0	<1	1
Fuel	%	ASTM D7593*	>5	▲ 3.8	▲ 5	<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	6.9	6.7	5.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.5	20.3	18.8
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	VLITE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>192	1	3	3
Boron	ppm	ASTM D5185(m)		63	65	63
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		16	34	34
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		205	485	516
Calcium	ppm	ASTM D5185(m)	3780	1834	1666	1518
Phosphorus	ppm	ASTM D5185(m)	1370	900	846	822
Zinc	ppm	ASTM D5185(m)	1500	992	885	911
Sulfur	ppm	ASTM D5185(m)	3800	3119	2528	2476
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.7	16.1	14.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	12.8	▲ 11.9	13.0



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005726 **Received** : 04 Jan 2024
Lab Number : 02606526 **Diagnosed** : 05 Jan 2024
Unique Number : 5707612 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: PercentFuel, Visual)

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)665-8544