



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[83735]

Machine Id

1090 NUVIK CRT MISSISSAUGA, FIRE STATION 117 CITY OF MISSISSAUGA CITY OF MISSISSAUGA

Component

Right Diesel Engine

Fluid

ESSO XD-3 EXTRA 15W40 (10 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		PN0005662	PN0003198	PN0000755
Sample Date		Client Info		11 Jan 2024	07 Jan 2022	10 Feb 2020
Machine Age	hrs	Client Info		221	185	153
Oil Age	hrs	Client Info		204	0	0
Filter Age	hrs	Client Info		204	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

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	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	<1
Lead	ppm	ASTM D5185(m)	>40	<1	1	1
Copper	ppm	ASTM D5185(m)	>330	3	7	5
Tin	ppm	ASTM D5185(m)	>15	<1	1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

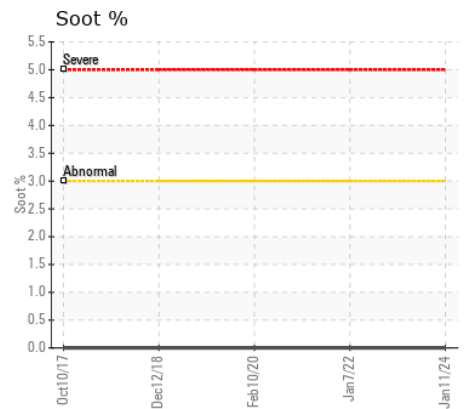
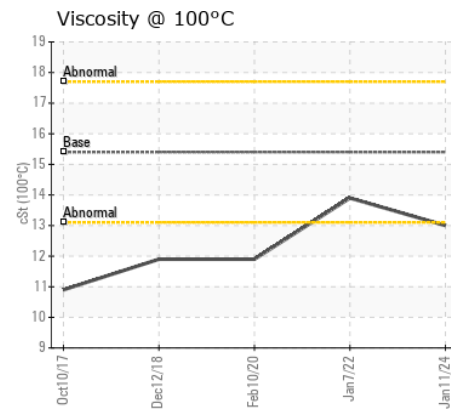
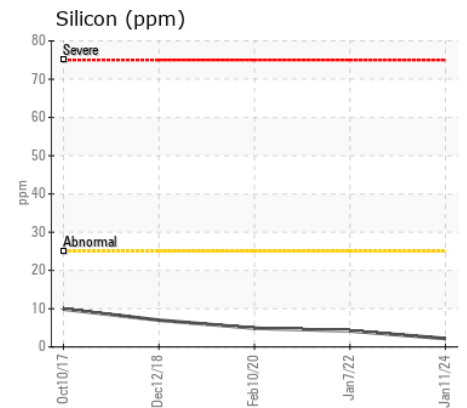
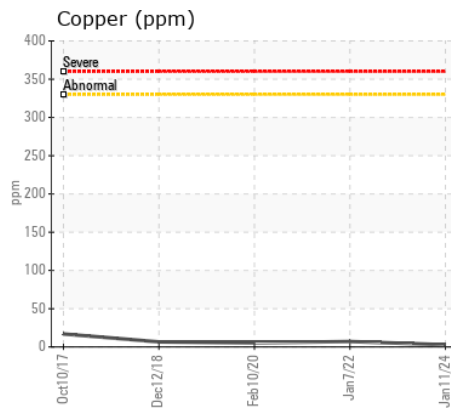
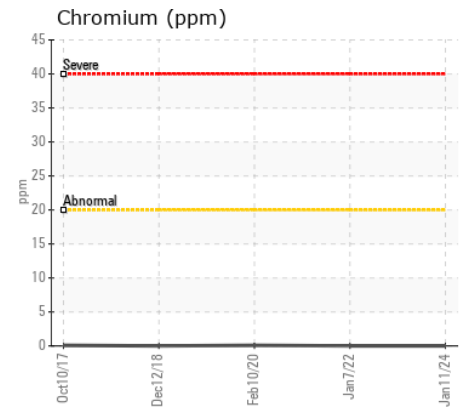
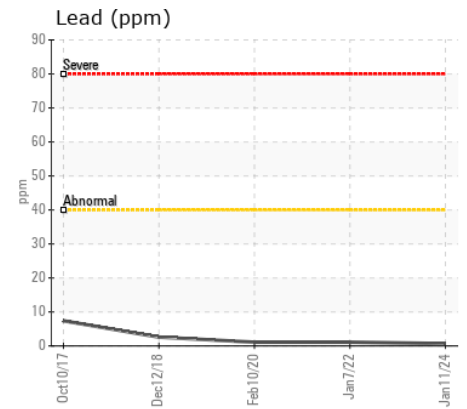
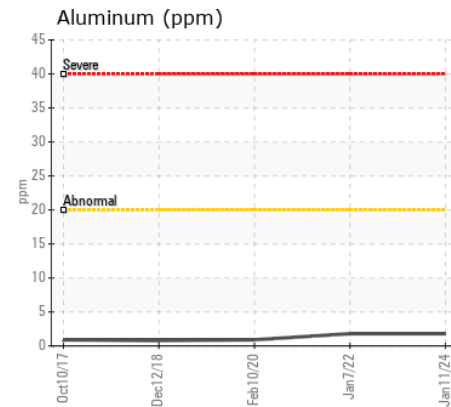
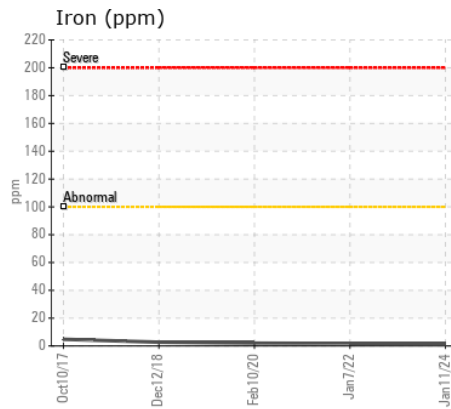
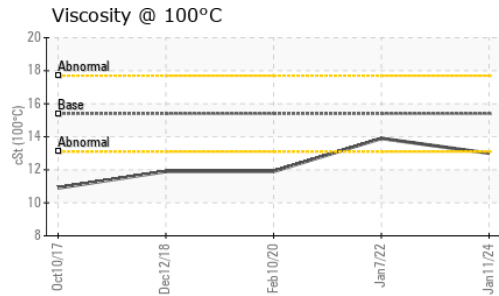
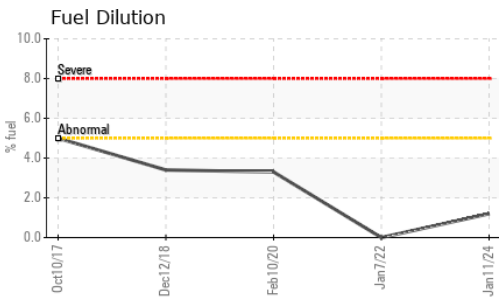
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	4	5
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
Fuel	%	ASTM D7593*	>5	1.2	<1.0	▲ 3.3
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	5.8	7.5	5.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	15.5	18.7	24.1
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	1
Boron	ppm	ASTM D5185(m)		55	76	51
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		31	70	35
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		114	183	425
Calcium	ppm	ASTM D5185(m)	3780	1992	1990	1607
Phosphorus	ppm	ASTM D5185(m)	1370	973	985	▲ 694
Zinc	ppm	ASTM D5185(m)	1500	1068	1117	▲ 815
Sulfur	ppm	ASTM D5185(m)	3800	3052	3067	2173
Oxidation	Abs/.1mm	ASTM D7414*	>25	10.3	14.7	18.3
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.0	13.9	11.9



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005662 **Received** : 16 Jan 2024
Lab Number : 02608965 **Diagnosed** : 17 Jan 2024
Unique Number : 5710051 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

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: Ryan Udall
 rudall@pwrstn.com
 T: (905)565-1621
 F: (905)629-1499