



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[86347]
 Machine Id

30 BOND STREET TORONTO ST.MICHAELS HOSPITAL 12TH FLR UNIT #1

Component
Rear Diesel Engine

Fluid
ESSO XD-3 EXTRA 15W40 (80 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006183	PN955102	PN955107
Sample Date		Client Info		16 May 2024	18 Jan 2016	18 Jan 2016
Machine Age	hrs	Client Info		552	220	204
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Not Chngd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	2	5	5
Chromium	ppm	ASTM D5185(m)	>20	0	<1	0
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	<1	<1	1
Lead	ppm	ASTM D5185(m)	>40	<1	1	1
Copper	ppm	ASTM D5185(m)	>330	<1	2	3
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

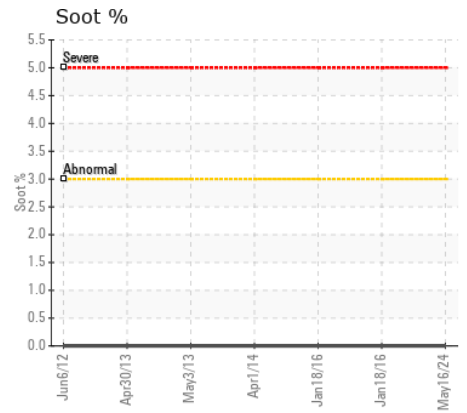
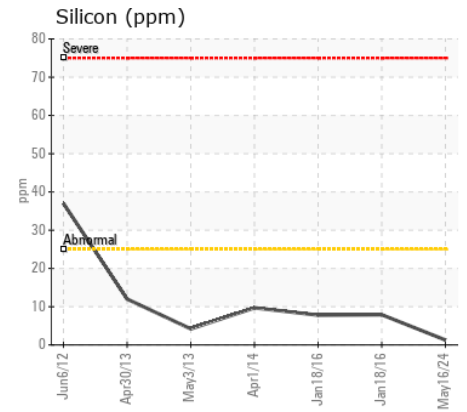
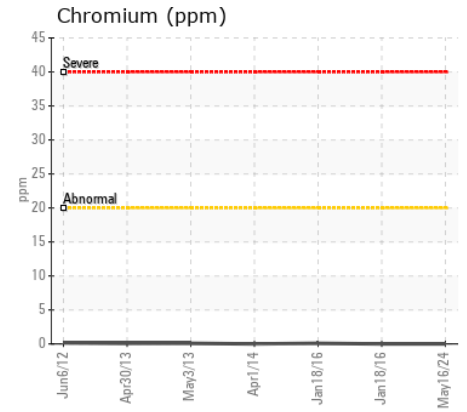
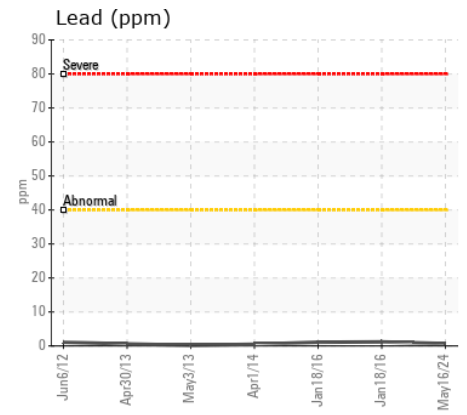
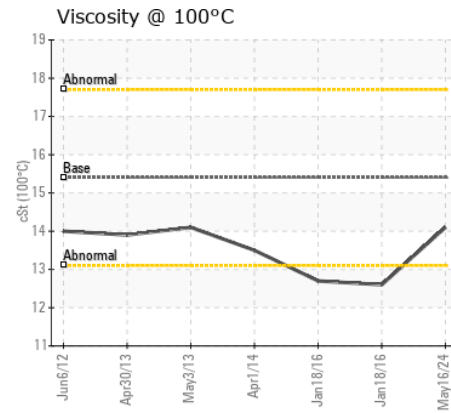
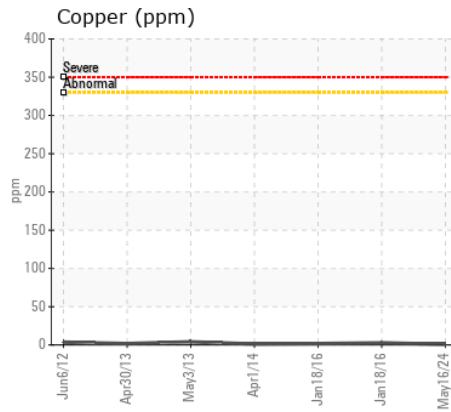
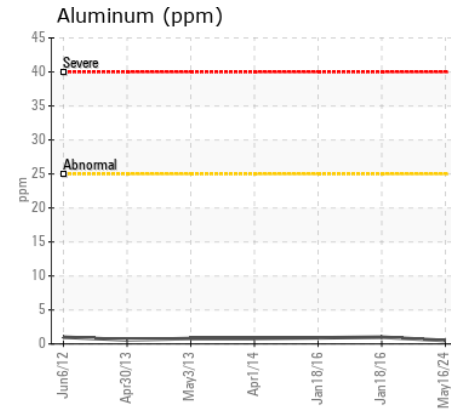
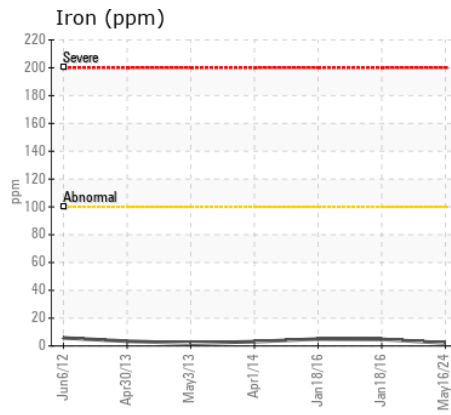
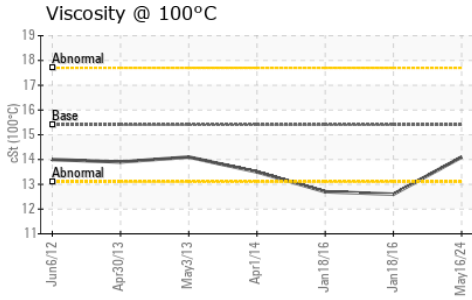
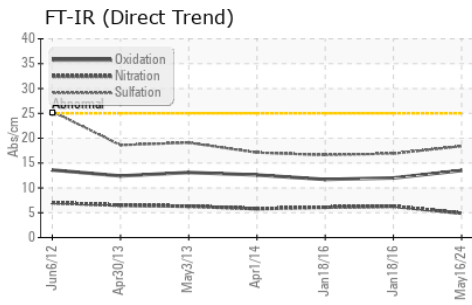
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	1	8	8
Potassium	ppm	ASTM D5185(m)	>20	0	0	0
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	4.9	6.3	6.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.4	16.9	16.6
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	4	4
Boron	ppm	ASTM D5185(m)		9	7	8
Barium	ppm	ASTM D5185(m)		0	<1	<1
Molybdenum	ppm	ASTM D5185(m)		58	40	40
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		886	831	822
Calcium	ppm	ASTM D5185(m)	3780	1089	1255	1249
Phosphorus	ppm	ASTM D5185(m)	1370	974	1049	1053
Zinc	ppm	ASTM D5185(m)	1500	1135	1242	1231
Sulfur	ppm	ASTM D5185(m)	3800	2552	2966	2989
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.5	12.0	11.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.1	12.6	12.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006183
Lab Number : 02637375
Unique Number : 5786537
Test Package : MOB 1
Received : 24 May 2024
Tested : 24 May 2024
Diagnosed : 24 May 2024 - Wes Davis

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

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.