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POWERStation
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POWER GENERATION PRODUCTS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[85307]
Machine Id
2050 JANE ST BACK OF BUILDING A CITY OF TORONTO CITY OF TORONTO
Component
Front Natural Gas Engine
Fluid
ESSO XD-3 EXTRA 15W40 (100 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

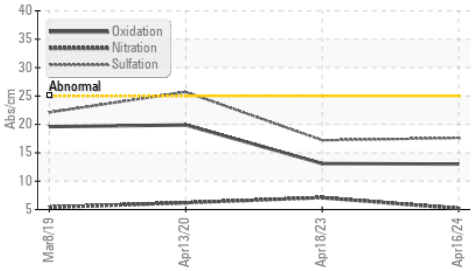
There is no indication of any contamination in the oil.

FLUID CONDITION

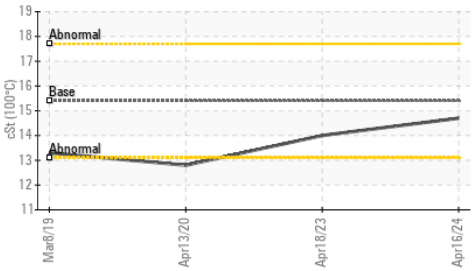
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006012	PN0004634	PN0001050
Sample Date		Client Info		16 Apr 2024	18 Apr 2023	13 Apr 2020
Machine Age	hrs	Client Info		68	47	474
Oil Age	hrs	Client Info		20	0	0
Filter Age	hrs	Client Info		20	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	MARGINAL
Iron	ppm	ASTM D5185(m)	>50	1	1	2
Chromium	ppm	ASTM D5185(m)	>4	0	0	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>9	1	2	<1
Lead	ppm	ASTM D5185(m)	>30	<1	<1	2
Copper	ppm	ASTM D5185(m)	>35	7	6	66
Tin	ppm	ASTM D5185(m)	>4	<1	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>+100	3	10	2
Potassium	ppm	ASTM D5185(m)	>20	0	<1	0
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	5.2	7.1	6.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.6	17.2	25.7
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>192	1	2	<1
Boron	ppm	ASTM D5185(m)		14	70	63
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		61	76	41
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		788	71	493
Calcium	ppm	ASTM D5185(m)	3780	1244	2187	1650
Phosphorus	ppm	ASTM D5185(m)	1370	994	1103	740
Zinc	ppm	ASTM D5185(m)	1500	1144	1136	854
Sulfur	ppm	ASTM D5185(m)	3800	2641	3252	2096
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.0	13.1	19.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.7	14.0	12.8

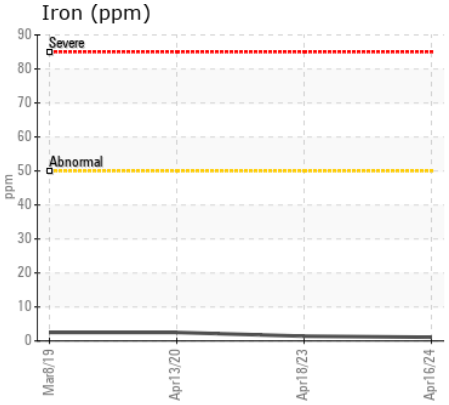
FT-IR (Direct Trend)



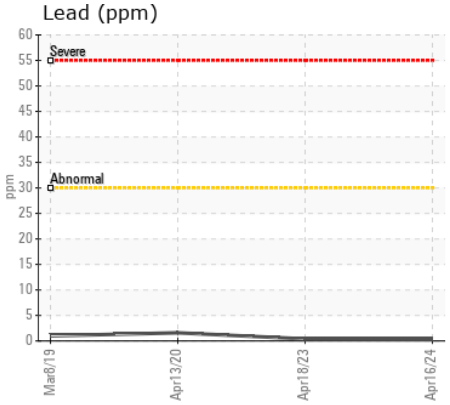
Viscosity @ 100°C



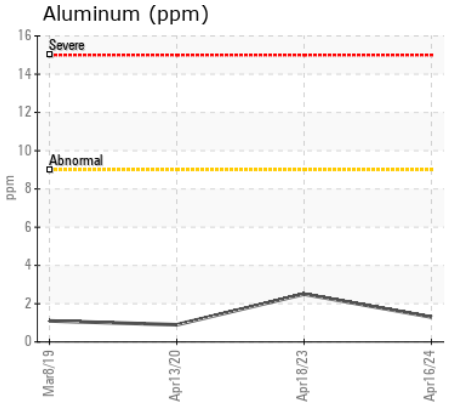
Iron (ppm)



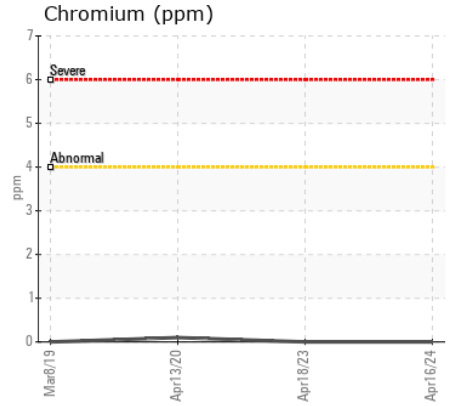
Lead (ppm)



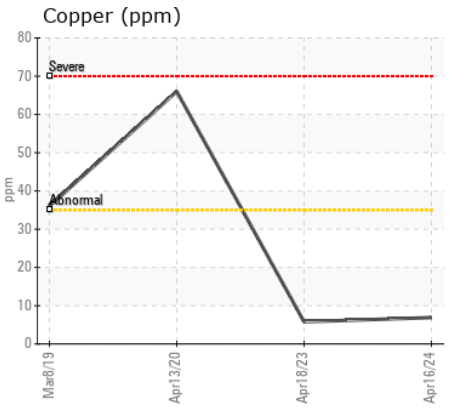
Aluminum (ppm)



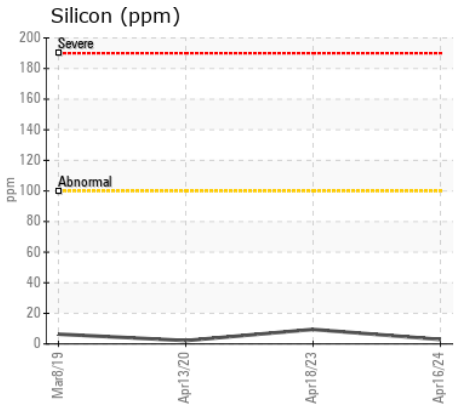
Chromium (ppm)



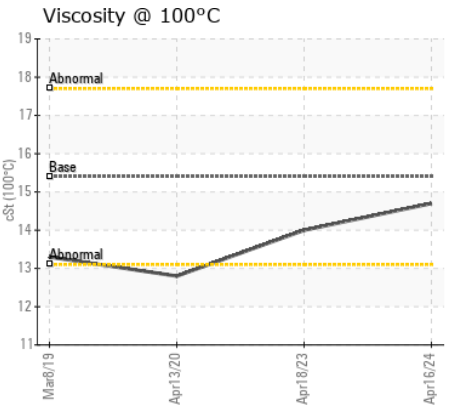
Copper (ppm)



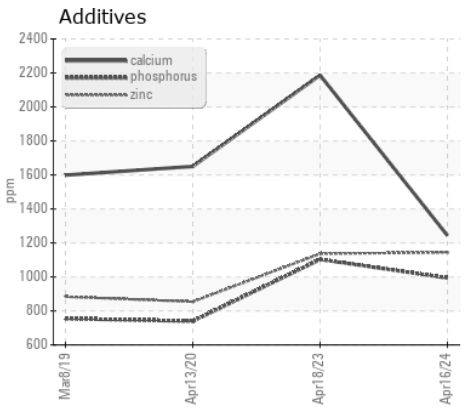
Silicon (ppm)



Viscosity @ 100°C



Additives



ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9		
Sample No.	: PN0006012	**Received**	: 22 Apr 2024
Lab Number	: 02630566	**Tested**	: 22 Apr 2024
Unique Number	: 5763698	**Diagnosed**	: 22 Apr 2024 - Kevin Marson
Test Package	: MOB 1		

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.

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