MOB

POWERStation
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POWER GENERATION PRODUCTS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[84483]
Machine Id
5000 HWY 7 MARKHAM PHASE 1 CADILLAC FAIRVIEW D120328470
Component
Diesel Engine
Fluid
ESSO XD-3 EXTRA 15W40 (7 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

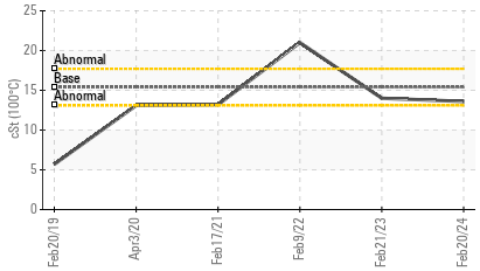
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005617	PN0004476	PN0003280
Sample Date		Client Info		20 Feb 2024	21 Feb 2023	09 Feb 2022
Machine Age	hrs	Client Info		216	200	182
Oil Age	hrs	Client Info		16	20	0
Filter Age	hrs	Client Info		16	20	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185(m)	>90	4	4	3
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	2	2	2
Titanium	ppm	ASTM D5185(m)	>2	0	<1	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	3	3
Lead	ppm	ASTM D5185(m)	>40	<1	<1	1
Copper	ppm	ASTM D5185(m)	>330	4	4	4
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>25	6	9	9
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	ASTM D7844*	>6	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	7.0	7.4	8.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.2	19.4	17.0
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	▲ .2%
Sodium	ppm	ASTM D5185(m)	>192	3	4	3
Boron	ppm	ASTM D5185(m)		44	65	72
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		50	87	86
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		387	30	56
Calcium	ppm	ASTM D5185(m)	3780	1738	2242	2069
Phosphorus	ppm	ASTM D5185(m)	1370	1017	1105	1065
Zinc	ppm	ASTM D5185(m)	1500	1118	1139	1148
Sulfur	ppm	ASTM D5185(m)	3800	3182	3275	3276
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.8	11.9	13.0
Visc @ 40°C	cSt	ASTM D7279(m)	116	97.2	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.6	14.0	21.0
Viscosity Index (VI)	Scale	ASTM D2270*	140	140	---	---

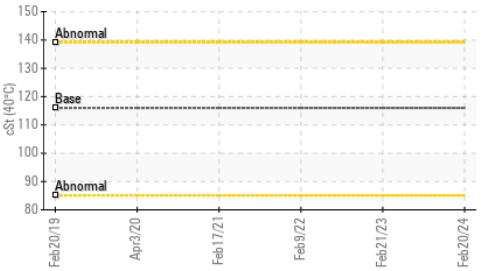
Report Id: POWMIS [WCAMIS] 02618936 (Generated: 02/29/2024 15:10:42) Rev: 1

Contact/Location: Brett Kinkley - POWMIS

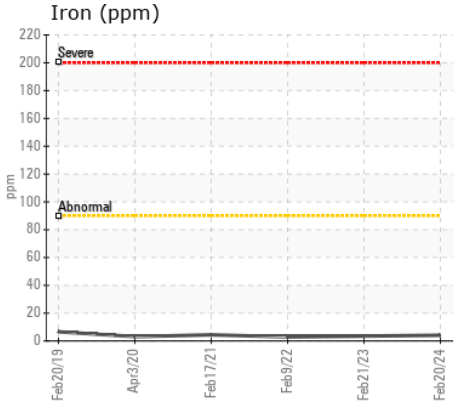
Viscosity @ 100°C



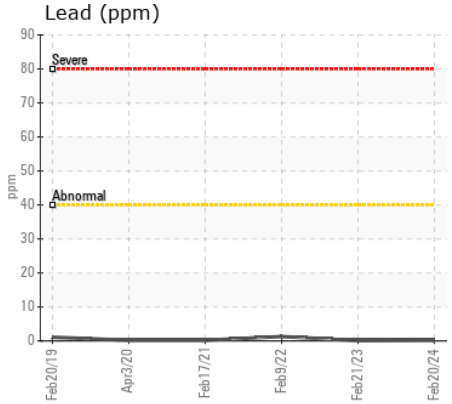
Viscosity @ 40°C



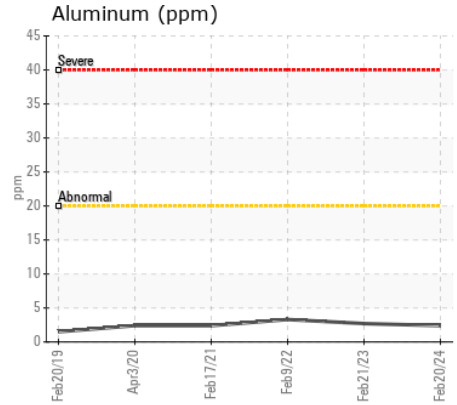
Iron (ppm)



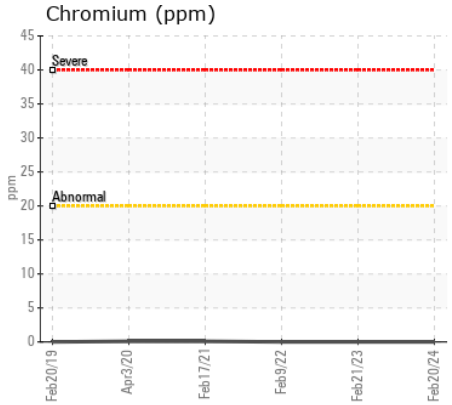
Lead (ppm)



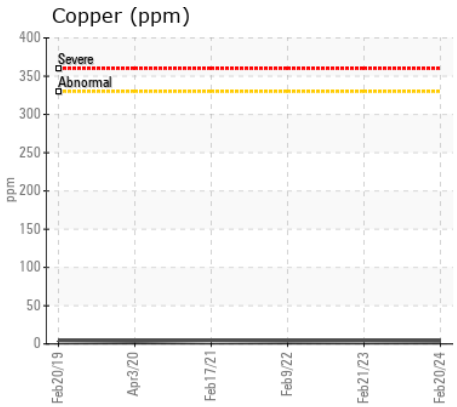
Aluminum (ppm)



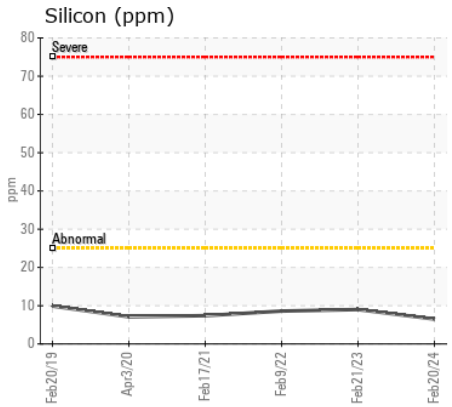
Chromium (ppm)



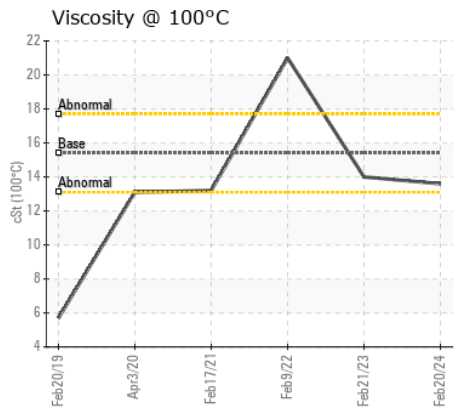
Copper (ppm)



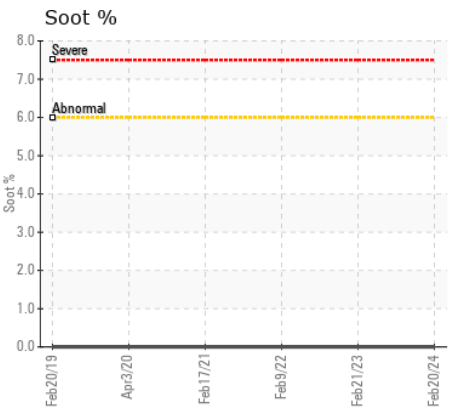
Silicon (ppm)



Viscosity @ 100°C



Soot %



CALA
ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005617 **Received** : 29 Feb 2024
Lab Number : 02618936 **Tested** : 29 Feb 2024
Unique Number : 5736046 **Diagnosed** : 29 Feb 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KV40, VI)

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)565-8544