MOB

POWERStation
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POWER GENERATION PRODUCTS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Area
[84549]
Machine Id
20 CORK ST, GUELPH BELL CANADA 5362004816
Component
Right Diesel Engine
Fluid
ESSO XD-3 EXTRA 15W40 (5 LTR)

RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

WEAR

Metal levels are typical for a new component breaking in.

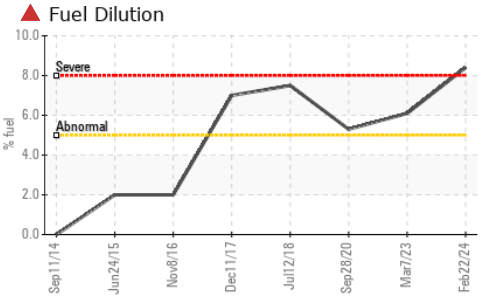
CONTAMINATION

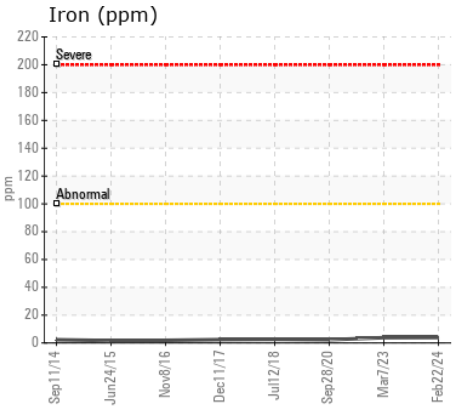
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

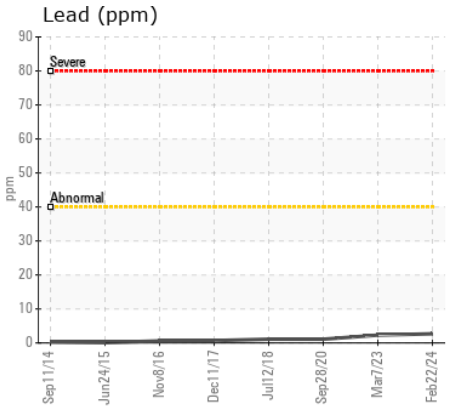
FLUID CONDITION

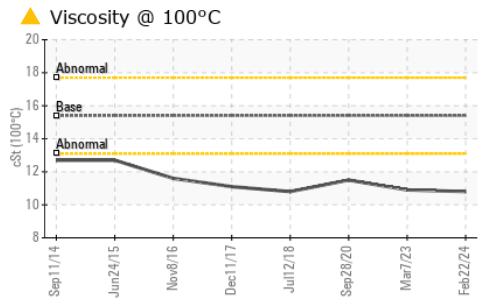
The oil is no longer serviceable due to the presence of contaminants.

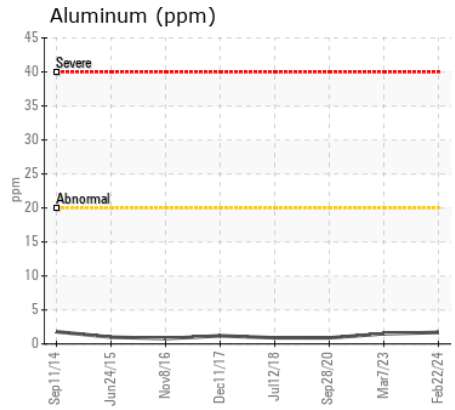
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0005826	PN0004467	PN0001589
Sample Date		Client Info		22 Feb 2024	07 Mar 2023	28 Sep 2020
Machine Age	hrs	Client Info		366	352	285
Oil Age	hrs	Client Info		13	0	22
Filter Age	hrs	Client Info		13	0	22
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		Changed	Changed	Not Changd
Sample Status				SEVERE	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185(m)	>100	4	4	2
Chromium	ppm	ASTM D5185(m)	>20	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	<1	<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	3	2	1
Copper	ppm	ASTM D5185(m)	>330	5	4	2
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Silicon	ppm	ASTM D5185(m)	>25	4	3	3
Potassium	ppm	ASTM D5185(m)	>20	1	<1	<1
Fuel	%	ASTM D7593*	>5	▲ 8.4	▲ 6.1	▲ 5.3
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	7.1	7.3	5.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.7	22.3	20.6
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>192	4	5	4
Boron	ppm	ASTM D5185(m)		44	51	54
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		43	42	37
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		461	417	496
Calcium	ppm	ASTM D5185(m)	3780	1573	1688	1552
Phosphorus	ppm	ASTM D5185(m)	1370	788	816	752
Zinc	ppm	ASTM D5185(m)	1500	866	853	860
Sulfur	ppm	ASTM D5185(m)	3800	2357	2230	2184
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.1	19.4	18.6
Visc @ 40°C	cSt	ASTM D7279(m)	116	▲ 72.5	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	▲ 10.8	▲ 10.9	▲ 11.5
Viscosity Index (VI)	Scale	ASTM D2270*	140	137	---	---

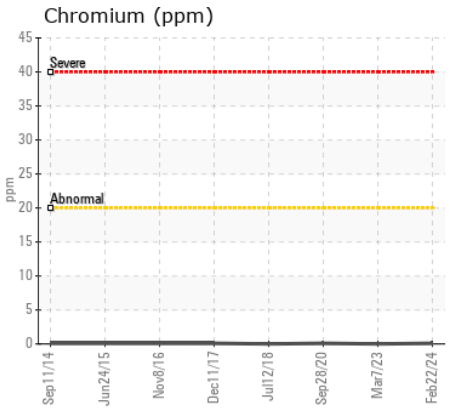


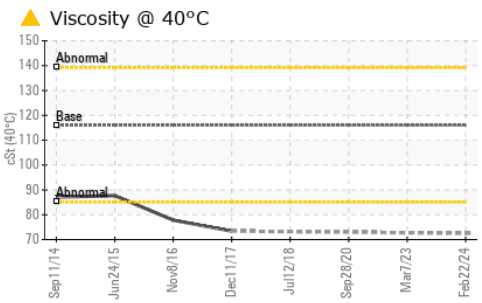


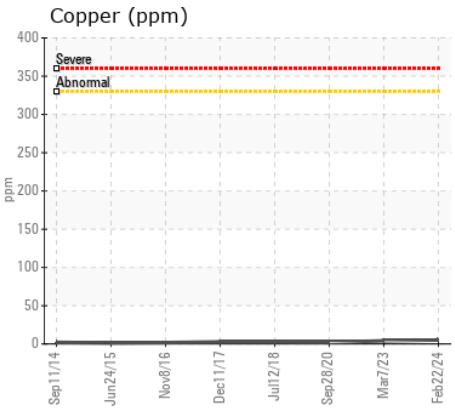


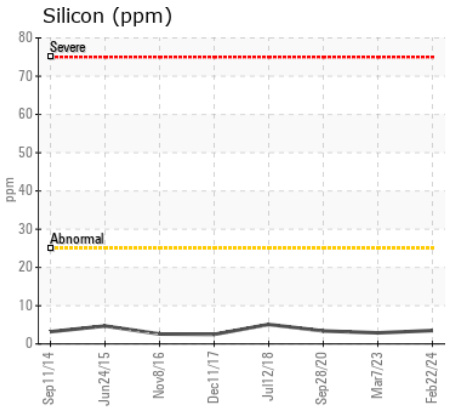


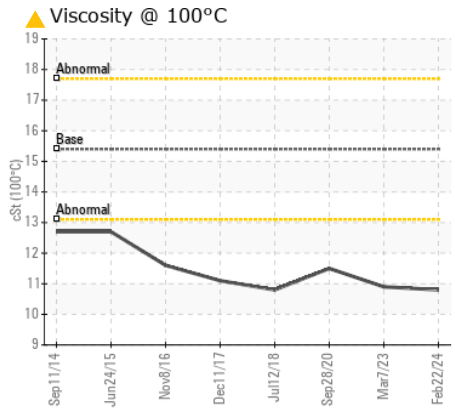


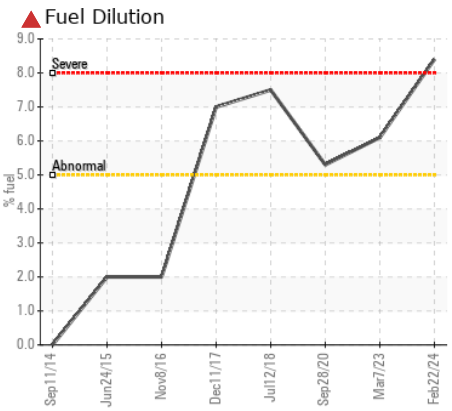












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005826 **Received** : 29 Feb 2024
Lab Number : 02618930 **Tested** : 01 Mar 2024
Unique Number : 5736040 **Diagnosed** : 01 Mar 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: KV40, PercentFuel, 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.

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