MOB

POWERStation
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POWER GENERATION PRODUCTS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	ABNORMAL

Machine Id
125 MANITOBA ST BRACEBRIDGE BELL CANADA LOC#331341
Component
Right Diesel Engine
Fluid
ESSO XD-3 EXTRA 15W40 (30 LTR)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

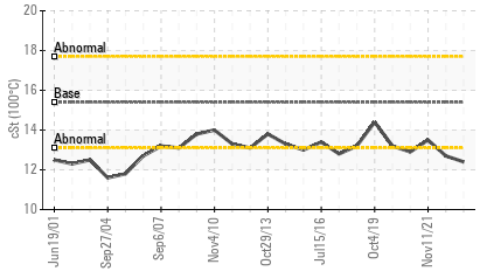
Light fuel dilution occurring.

FLUID CONDITION

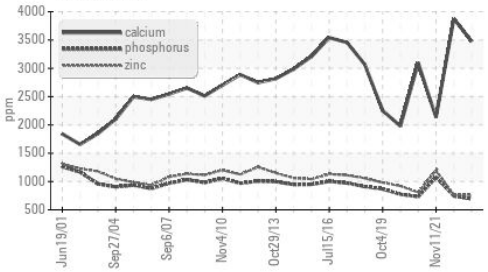
Phosphorus ppm levels are abnormally low. Zinc ppm levels are abnormally low. Visc @ 100°C is abnormally low. Fuel is present in the oil and is lowering the viscosity.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**PN0006031**	PN0004398	PN0002935
Sample Date		Client Info		**19 Apr 2024**	03 Jan 2023	11 Nov 2021
Machine Age	hrs	Client Info		**626**	602	186
Oil Age	hrs	Client Info		**23**	0	16
Filter Age	hrs	Client Info		**23**	0	16
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Changed**	Changed	Changed
Sample Status				**ABNORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>120	**5**	3	5
Chromium	ppm	ASTM D5185(m)	>5	**0**	0	<1
Nickel	ppm	ASTM D5185(m)	>4	**0**	0	<1
Titanium	ppm	ASTM D5185(m)	>2	**0**	0	0
Silver	ppm	ASTM D5185(m)	>2	**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>5	**<1**	<1	2
Lead	ppm	ASTM D5185(m)	>25	**1**	1	<1
Copper	ppm	ASTM D5185(m)	>40	**2**	1	1
Tin	ppm	ASTM D5185(m)	>15	**1**	<1	<1
Vanadium	ppm	ASTM D5185(m)		**0**	0	<1
Silicon	ppm	ASTM D5185(m)	>25	**3**	3	4
Potassium	ppm	ASTM D5185(m)	>20	**<1**	0	1
Fuel	%	ASTM D7593*	>3.0	▲ **1.7**	1.5	<1.0
Water		WC Method	>0.2	**NEG**	NEG	NEG
Glycol		WC Method		**NEG**	NEG	NEG
Soot %	%	ASTM D7844*	>0.8	**0**	0	0
Nitration	Abs/cm	ASTM D7624*	>20	**3.7**	3.6	8.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	**13.4**	14.0	19.4
Emulsified Water	scalar	Visual*	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>192	**5**	4	2
Boron	ppm	ASTM D5185(m)		**17**	9	73
Barium	ppm	ASTM D5185(m)		**0**	0	0
Molybdenum	ppm	ASTM D5185(m)		**7**	8	83
Manganese	ppm	ASTM D5185(m)		**0**	<1	<1
Magnesium	ppm	ASTM D5185(m)		**23**	23	66
Calcium	ppm	ASTM D5185(m)	3780	**3475**	3877	2135
Phosphorus	ppm	ASTM D5185(m)	1370	▲ **694**	745	1077
Zinc	ppm	ASTM D5185(m)	1500	▲ **760**	764	1195
Sulfur	ppm	ASTM D5185(m)	3800	**2414**	2510	3366
Oxidation	Abs/.1mm	ASTM D7414*	>25	**4.8**	4.8	13.6
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	▲ **12.4**	12.7	13.5

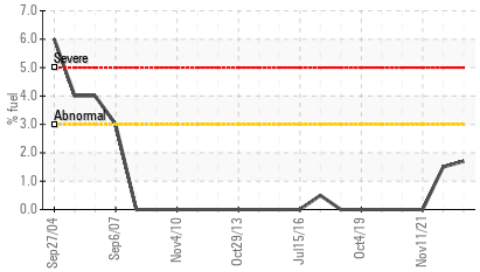
Viscosity @ 100°C



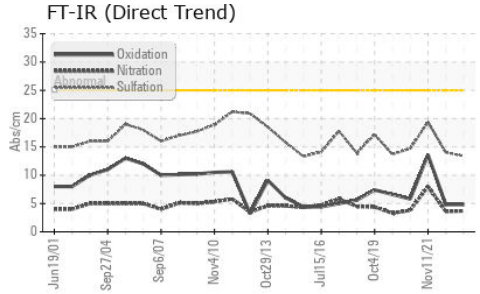
Additives



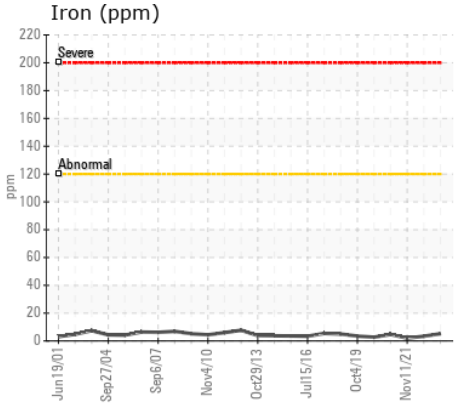
Fuel Dilution



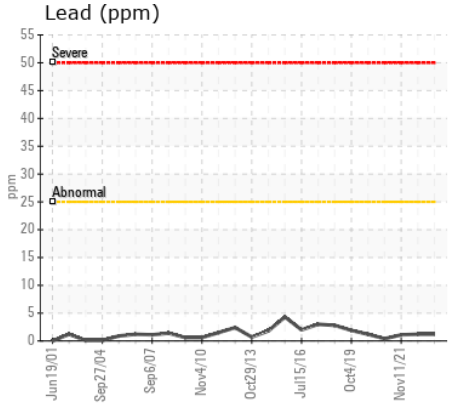
FT-IR (Direct Trend)



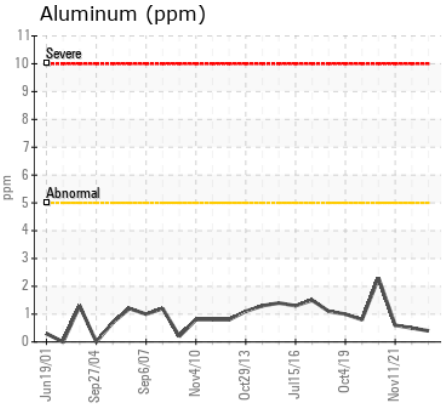
Iron (ppm)



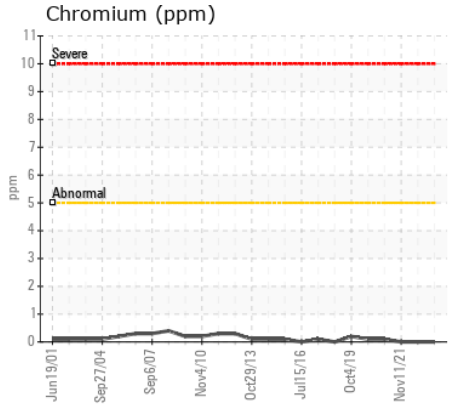
Lead (ppm)



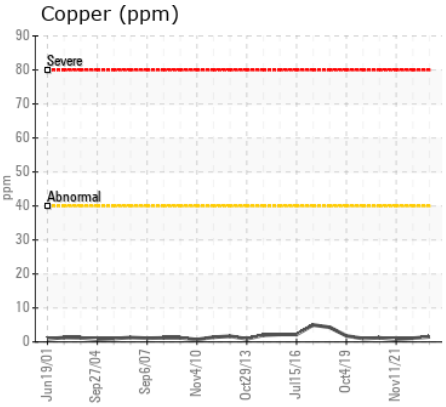
Aluminum (ppm)



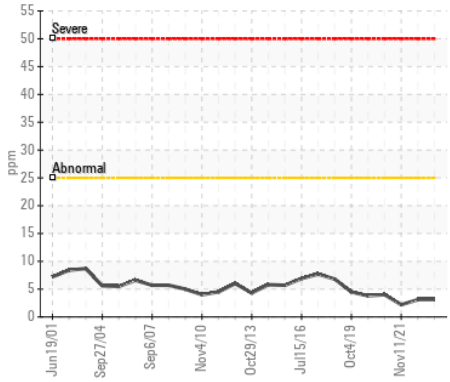
Chromium (ppm)



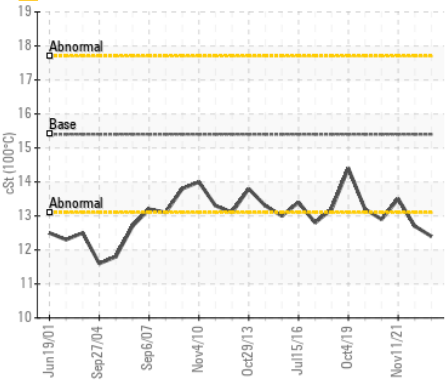
Copper (ppm)



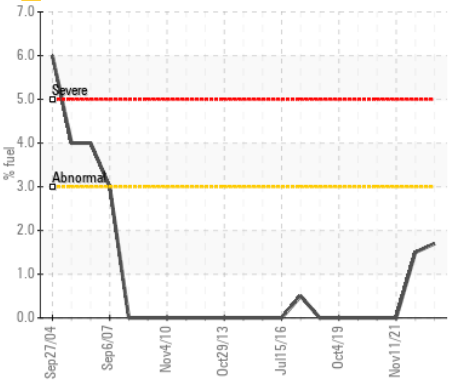
Silicon (ppm)



Viscosity @ 100°C



Fuel Dilution



CALA
ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006031 **Received** : 26 Apr 2024
Lab Number : 02631528 **Tested** : 29 Apr 2024
Unique Number : 5772681 **Diagnosed** : 29 Apr 2024 - 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.

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