MOB POWERStation POWER GENERATION PRODUCTS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
850 COXWELL AVE EAST YORK CIVIC CENTRE SPP00183 - CITY OF TORONTO SPP00183
Component
Rear Natural Gas Engine
Fluid
ESSO XD-3 EXTRA 15W40 (200 LTR)

RECOMMENDATION

Resample at the next service interval to monitor. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MOB 3 test kits, this testkit includes Analytical Ferrography which provides a detailed morphological analysis of wear particles present in the fluid. this testkit includes BN to determine the suitability of the oil for continued use.

WEAR

Metal levels are typical for a new component breaking in. Component wear rates appear to be normal (unconfirmed).

CONTAMINATION

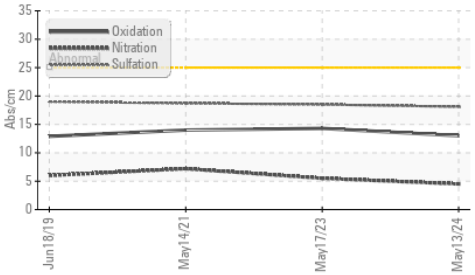
There is no indication of any contamination in the oil.

FLUID CONDITION

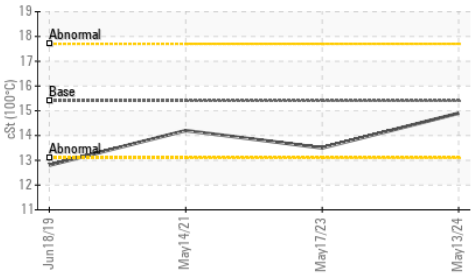
The condition of the oil is acceptable for the time in service (unconfirmed).

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006186	PN0004708	PN0002339
Sample Date		Client Info		13 May 2024	17 May 2023	14 May 2021
Machine Age	hrs	Client Info		147	132	98
Oil Age	hrs	Client Info		30	0	25
Filter Age	hrs	Client Info		30	0	25
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>50	<1	1	1
Chromium	ppm	ASTM D5185(m)	>4	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>9	<1	2	2
Lead	ppm	ASTM D5185(m)	>30	<1	2	<1
Copper	ppm	ASTM D5185(m)	>35	10	18	3
Tin	ppm	ASTM D5185(m)	>4	<1	1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	<1
Silicon	ppm	ASTM D5185(m)	>+100	2	6	9
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	3
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	4.5	5.5	7.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.1	18.5	18.7
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>192	1	2	6
Boron	ppm	ASTM D5185(m)		6	40	77
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		58	64	80
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		910	538	70
Calcium	ppm	ASTM D5185(m)	3780	1062	1624	2129
Phosphorus	ppm	ASTM D5185(m)	1370	1005	1040	999
Zinc	ppm	ASTM D5185(m)	1500	1157	1081	1165
Sulfur	ppm	ASTM D5185(m)	3800	2582	2744	3246
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.0	14.3	14.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.9	13.5	14.2

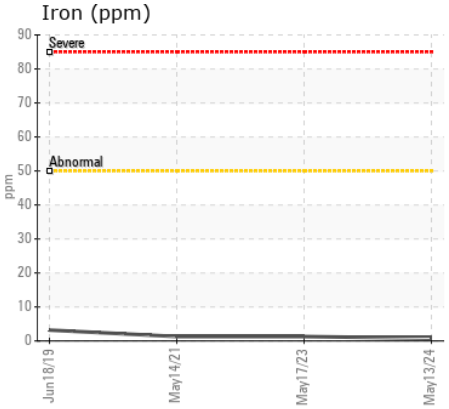
FT-IR (Direct Trend)



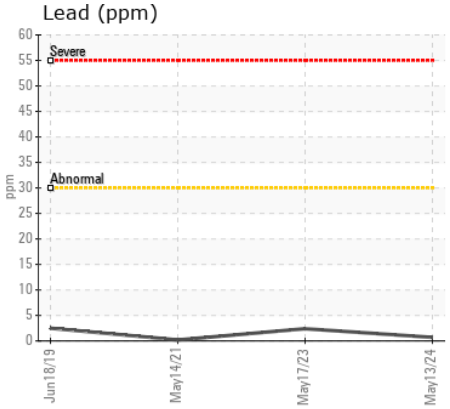
Viscosity @ 100°C



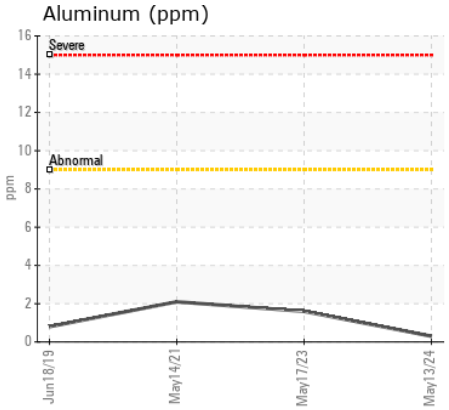
Iron (ppm)



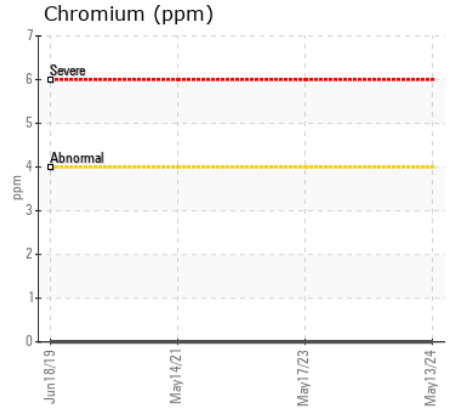
Lead (ppm)



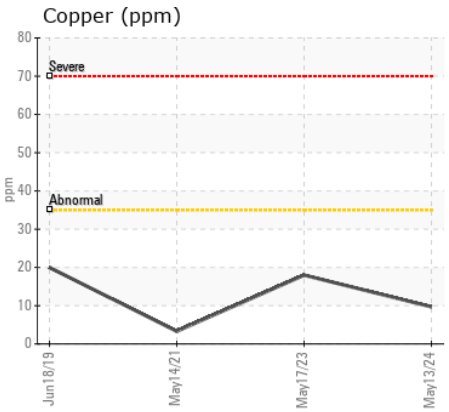
Aluminum (ppm)



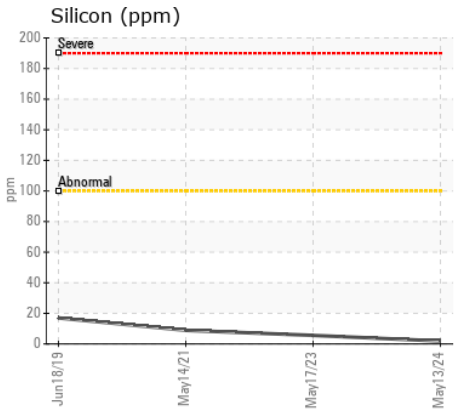
Chromium (ppm)



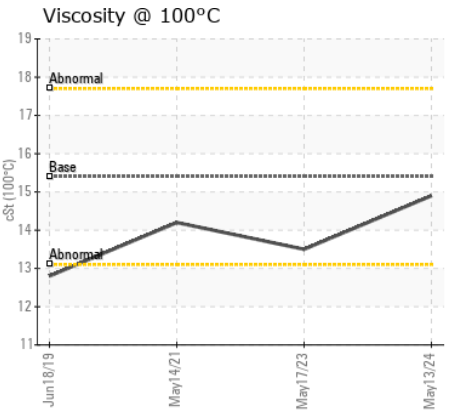
Copper (ppm)



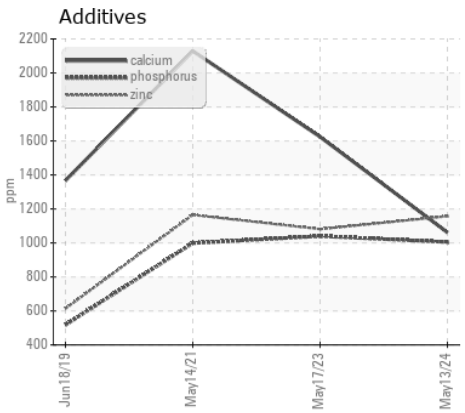
Silicon (ppm)



Viscosity @ 100°C



Additives



ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9		
Sample No.	: PN0006186	**Received**	: 21 May 2024
Lab Number	: 02636610	**Tested**	: 21 May 2024
Unique Number	: 5785772	**Diagnosed**	: 21 May 2024 - Wes Davis
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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