MOB

POWERStation
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POWER GENERATION PRODUCTS

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[85925]
Machine Id
1038 LORNE ST SUDBURY MOB#4502751 U583872K U583872K
Component
Rear Diesel Engine
Fluid
ESSO XD-3 EXTRA 15W40 (7 LTR)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

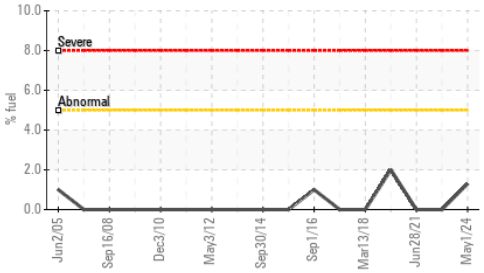
Light fuel dilution occurring. No other contaminants were detected in the oil.

FLUID CONDITION

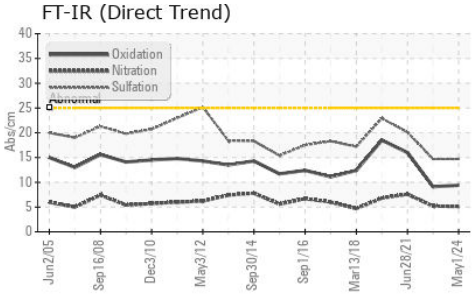
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006025	PN0003808	PN0002229
Sample Date		Client Info		01 May 2024	28 Jul 2022	28 Jun 2021
Machine Age	hrs	Client Info		556	536	438
Oil Age	hrs	Client Info		536	0	67
Filter Age	hrs	Client Info		536	0	67
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>250	2	5	5
Chromium	ppm	ASTM D5185(m)	>10	0	0	<1
Nickel	ppm	ASTM D5185(m)	>5	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>35	1	2	1
Lead	ppm	ASTM D5185(m)	>100	0	<1	<1
Copper	ppm	ASTM D5185(m)	>60	<1	2	3
Tin	ppm	ASTM D5185(m)	>5	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	<1
Silicon	ppm	ASTM D5185(m)	>35	2	5	6
Potassium	ppm	ASTM D5185(m)	>20	<1	1	2
Fuel	%	ASTM D7593*	>5	1.3	<1.0	<1.0
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	5.1	5.2	7.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	14.7	14.7	20.1
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>192	1	3	3
Boron	ppm	ASTM D5185(m)		29	67	75
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		16	73	13
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		51	129	719
Calcium	ppm	ASTM D5185(m)	3780	2465	2120	1373
Phosphorus	ppm	ASTM D5185(m)	1370	1035	955	770
Zinc	ppm	ASTM D5185(m)	1500	1193	1102	848
Sulfur	ppm	ASTM D5185(m)	3800	2771	3101	2464
Oxidation	Abs/.1mm	ASTM D7414*	>25	9.4	9.1	16.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	12.3	13.3	13.3

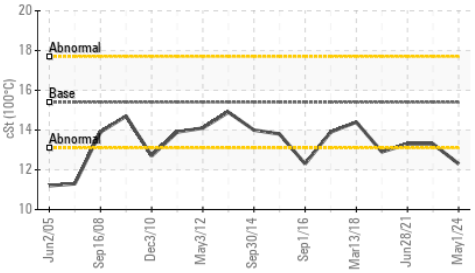
Fuel Dilution



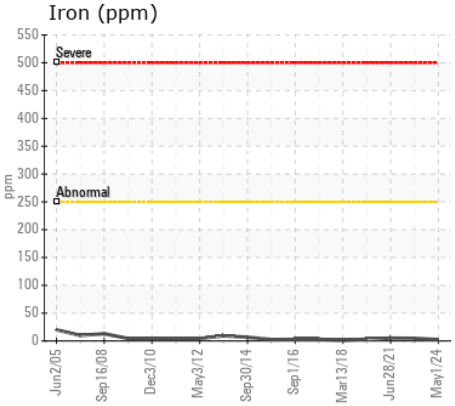
FT-IR (Direct Trend)



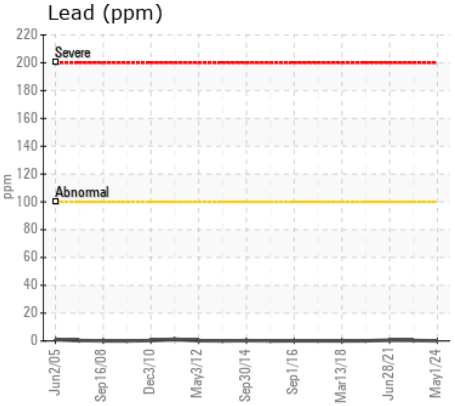
Viscosity @ 100°C



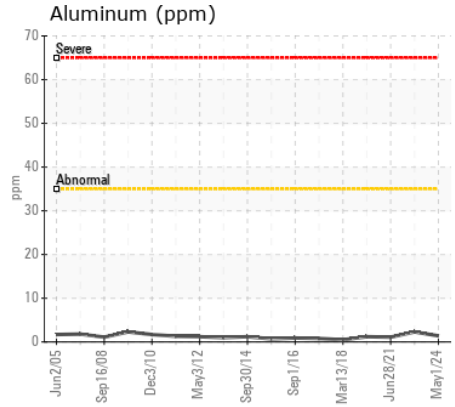
Iron (ppm)



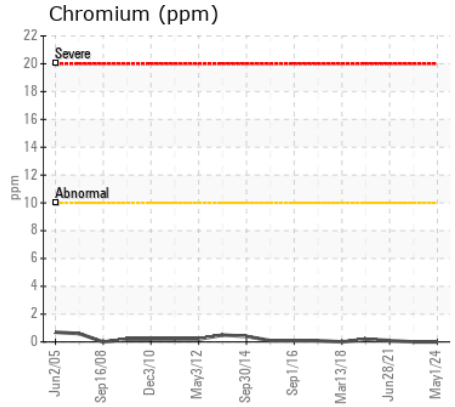
Lead (ppm)



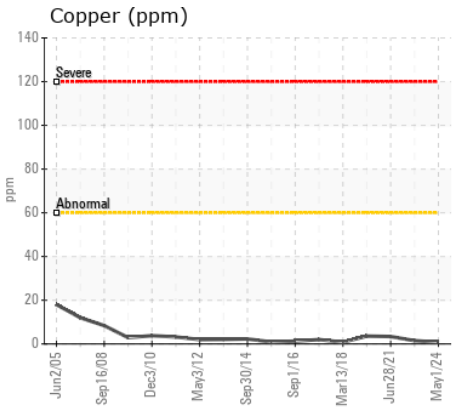
Aluminum (ppm)



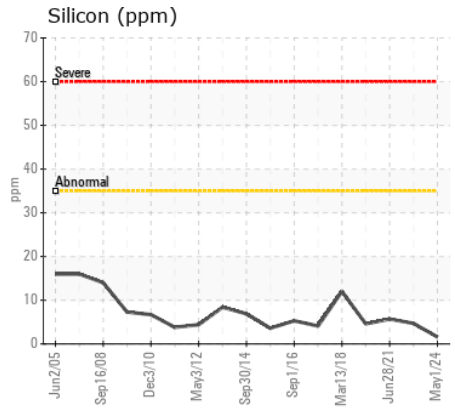
Chromium (ppm)



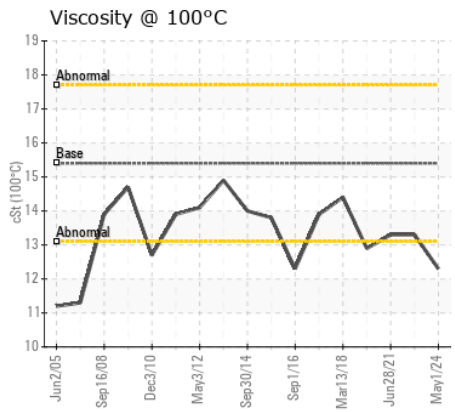
Copper (ppm)



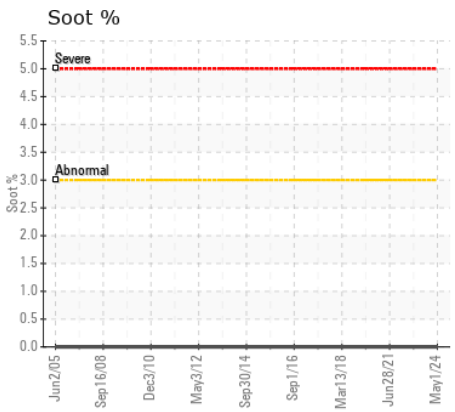
Silicon (ppm)



Viscosity @ 100°C



Soot %



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006025 **Received** : 07 May 2024
Lab Number : 02633788 **Tested** : 08 May 2024
Unique Number : 5774941 **Diagnosed** : 08 May 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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