



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[85620]

Machine Id

6366 STANLEY AVE NIAGARA FALLS BOUYGUES ENERGIES & SERVICES E180357726

Component

Left Diesel Engine

Fluid

ESSO XD-3 EXTRA 15W40 (100 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006044	PN0004825	PN0003338
Sample Date		Client Info		10 Apr 2024	24 May 2023	30 Mar 2022
Machine Age	hrs	Client Info		107	93	69
Oil Age	hrs	Client Info		15	0	0
Filter Age	hrs	Client Info		15	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>90	1	1	1
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	0	0	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	1	3	2
Lead	ppm	ASTM D5185(m)	>40	0	1	1
Copper	ppm	ASTM D5185(m)	>330	2	4	4
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

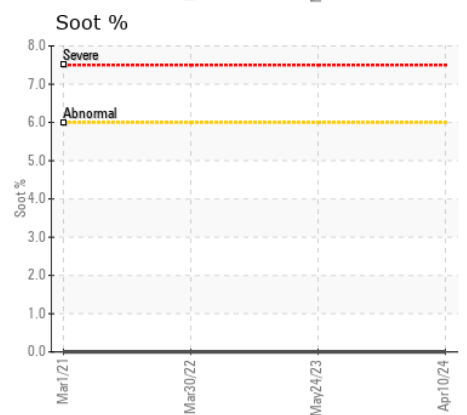
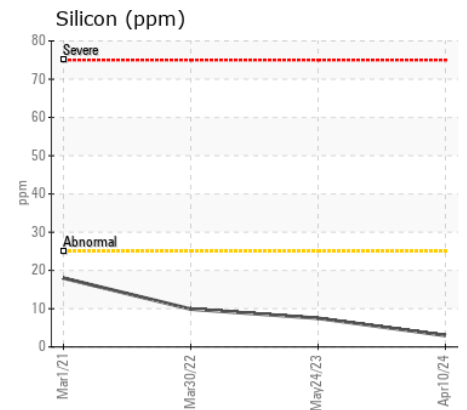
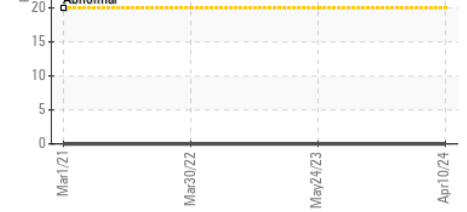
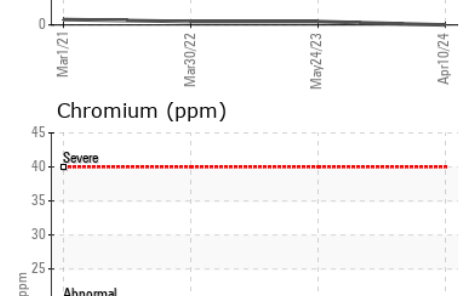
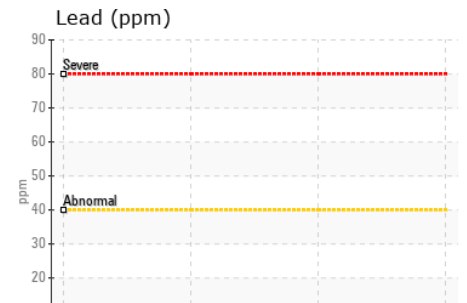
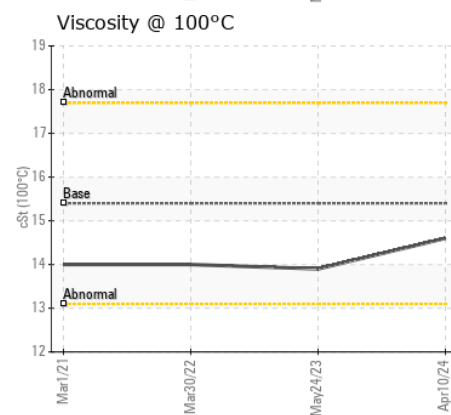
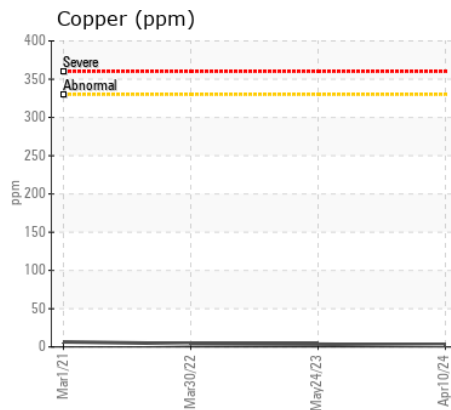
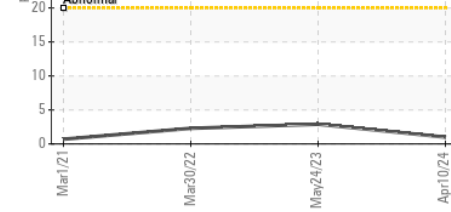
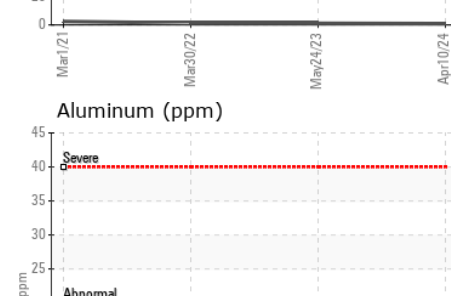
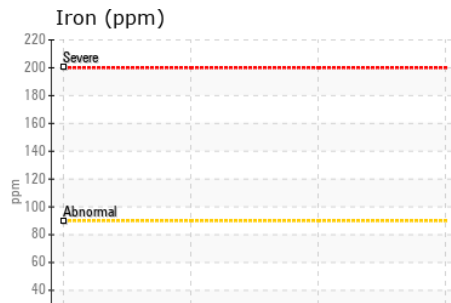
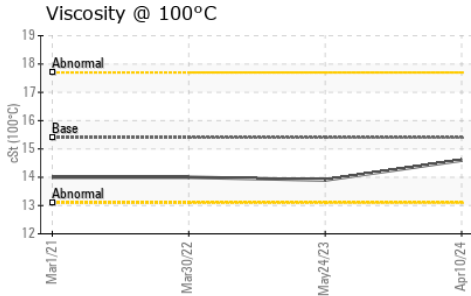
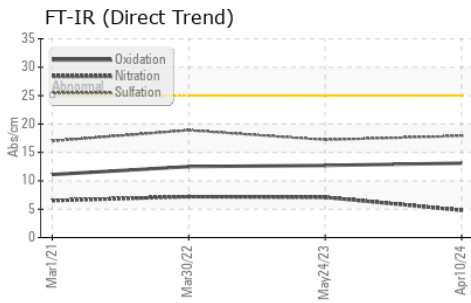
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	8	10
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>6	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	4.8	7.1	7.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.9	17.2	18.9
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>192	2	2	2
Boron	ppm	ASTM D5185(m)		14	76	73
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		63	88	78
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		837	26	27
Calcium	ppm	ASTM D5185(m)	3780	1216	2283	2190
Phosphorus	ppm	ASTM D5185(m)	1370	1041	1144	1061
Zinc	ppm	ASTM D5185(m)	1500	1183	1183	1155
Sulfur	ppm	ASTM D5185(m)	3800	2743	3346	3246
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.1	12.7	12.5
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.6	13.9	14.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006044
Lab Number : 02629492
Unique Number : 5762624
Test Package : MOB 1

Received : 17 Apr 2024
Tested : 17 Apr 2024
Diagnosed : 17 Apr 2024 - Wes Davis

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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.