



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[86221]
Machine Id
164 ANNE ST N, BARRIE CITY OF BARRIE CITY OF BARRIE

Component
Right Diesel Engine
Fluid
ESSO XD-3 EXTRA 15W40 (35 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006124	PN111153	PN990751
Sample Date		Client Info		08 May 2024	01 May 2018	20 Mar 2017
Machine Age	hrs	Client Info		144	554	537
Oil Age	hrs	Client Info		0	16	0
Filter Age	hrs	Client Info		0	16	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)	>100	2	2	2
Chromium	ppm	ASTM D5185(m)	>20	0	<1	0
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	1	<1	1
Lead	ppm	ASTM D5185(m)	>40	0	1	1
Copper	ppm	ASTM D5185(m)	>330	<1	2	2
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

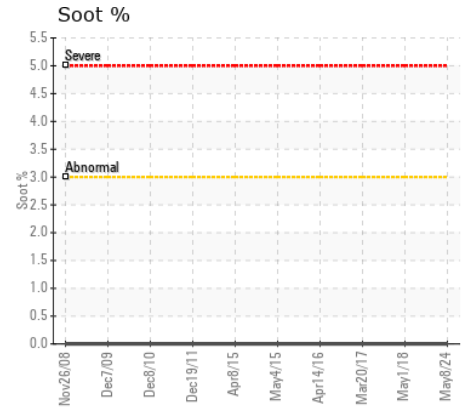
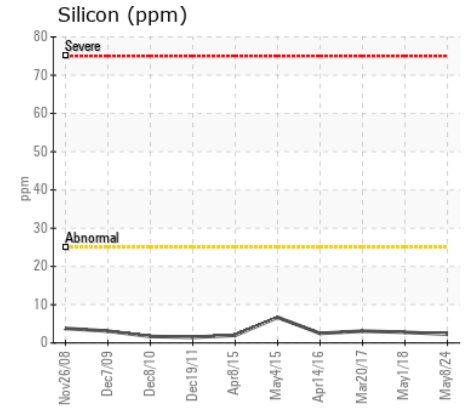
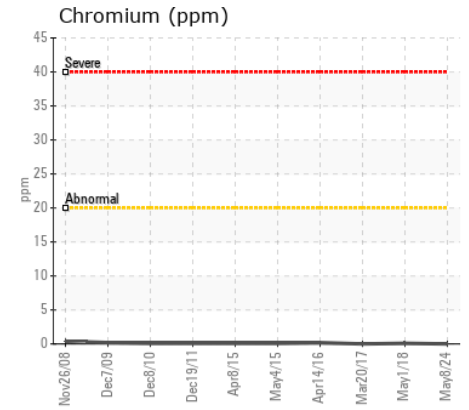
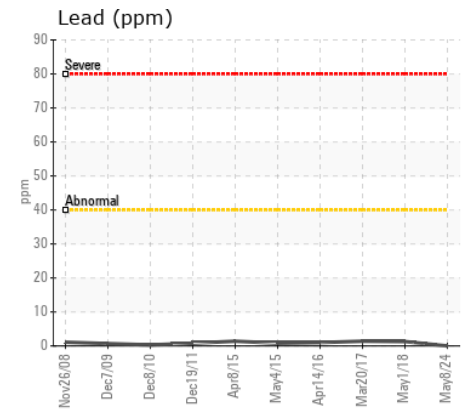
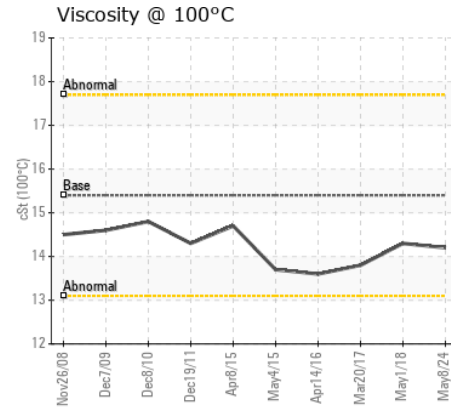
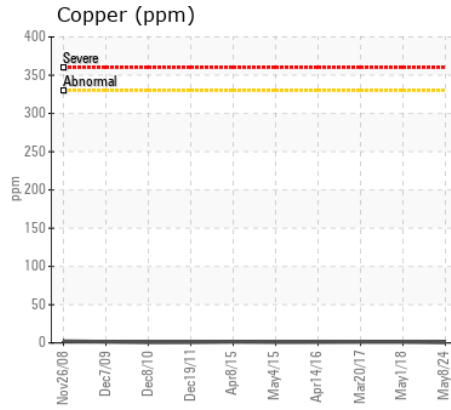
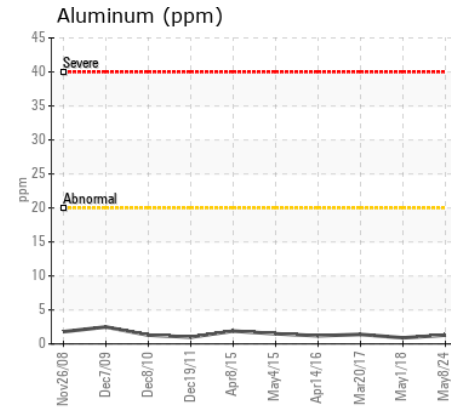
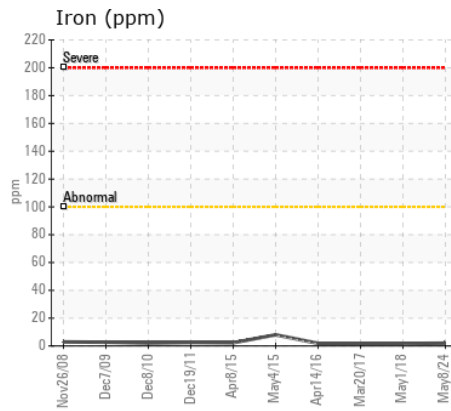
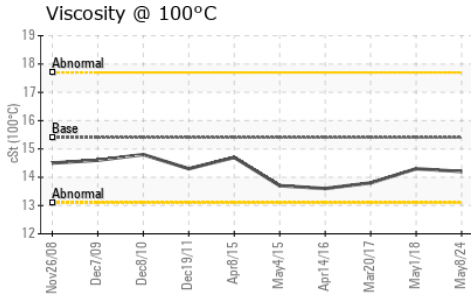
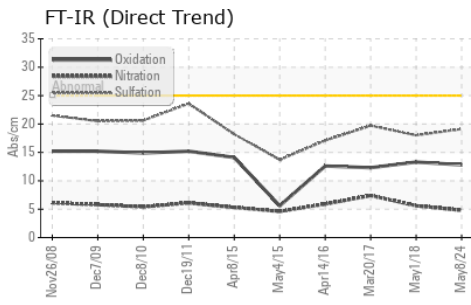
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	3	3
Potassium	ppm	ASTM D5185(m)	>20	1	<1	1
Fuel		WC Method	>5	<1.0	<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	4.8	5.6	7.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.1	18.0	19.7
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	3	2
Boron	ppm	ASTM D5185(m)		370	3	8
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		74	43	8
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		320	682	124
Calcium	ppm	ASTM D5185(m)	3780	1647	1409	2184
Phosphorus	ppm	ASTM D5185(m)	1370	1014	994	943
Zinc	ppm	ASTM D5185(m)	1500	1174	1159	1084
Sulfur	ppm	ASTM D5185(m)	3800	2758	2669	2769
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.8	13.3	12.3
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.2	14.3	13.8



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006124
Lab Number : 02634913
Unique Number : 5776066
Test Package : MOB 1

Received : 13 May 2024
Tested : 13 May 2024
Diagnosed : 13 May 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.