



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[86294]

Machine Id

90 HARVIE RD, BARRIE HARVIE BOOSTER STATION CITY OF BARRIE 79381147

Component

Right Diesel Engine

Fluid

ESSO XD-3 EXTRA 15W40 (70 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006184	PN111191	PN957651
Sample Date		Client Info		14 May 2024	17 May 2018	05 May 2016
Machine Age	hrs	Client Info		362	193	157
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Not Chngd	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>90	2	5	3
Chromium	ppm	ASTM D5185(m)	>20	0	<1	0
Nickel	ppm	ASTM D5185(m)	>2	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	2	1	1
Lead	ppm	ASTM D5185(m)	>40	0	1	<1
Copper	ppm	ASTM D5185(m)	>330	<1	4	<1
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

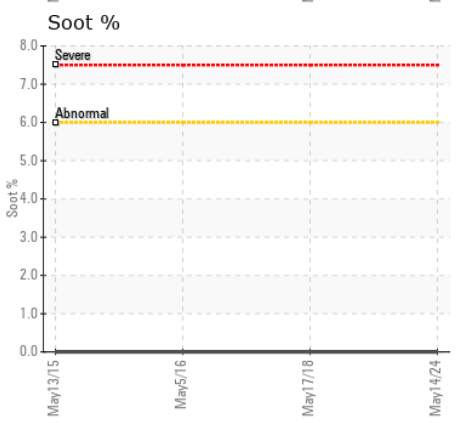
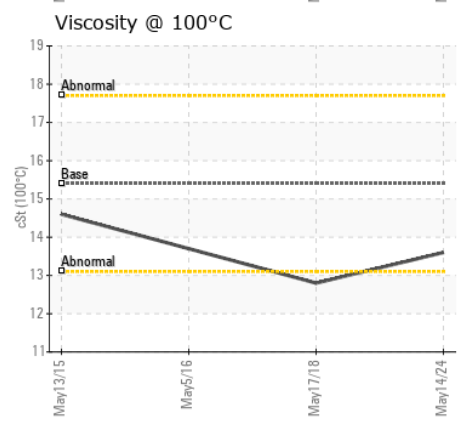
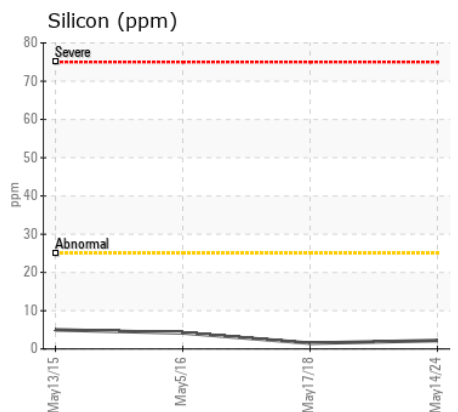
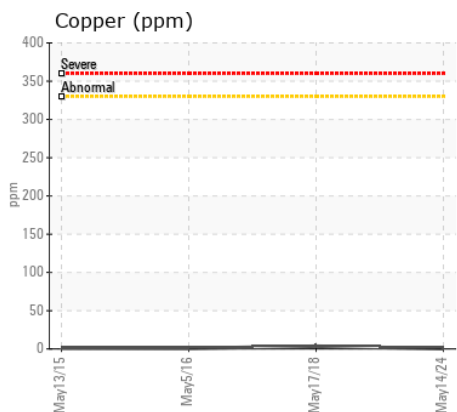
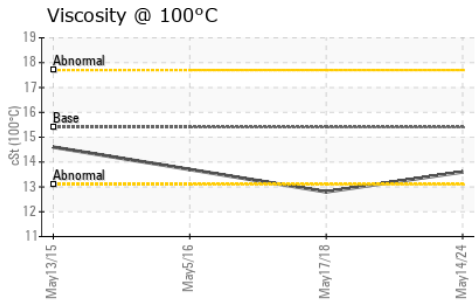
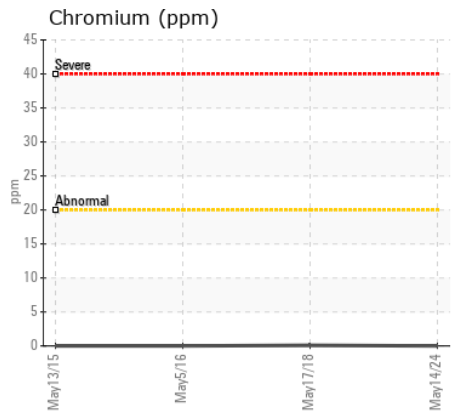
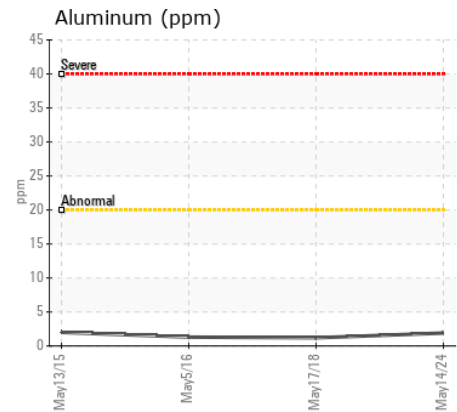
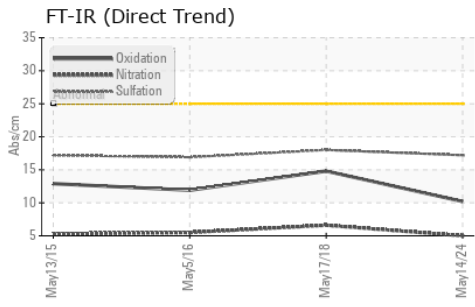
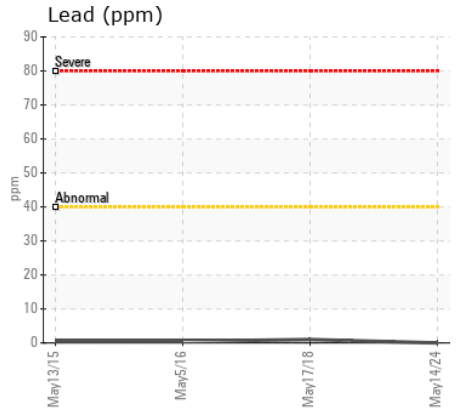
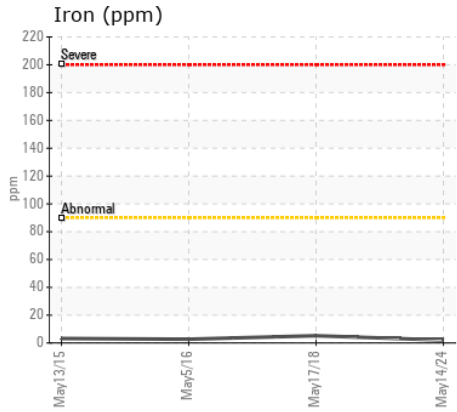
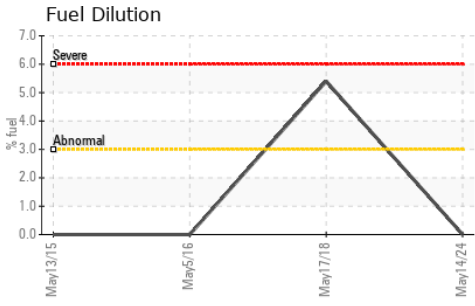
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	2	4
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel	%	ASTM D7593*	>3.0	0.0	▲ 5.4	<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	5.0	6.6	5.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.2	18.0	16.9
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	5	3
Boron	ppm	ASTM D5185(m)		188	4	3
Barium	ppm	ASTM D5185(m)		0	1	<1
Molybdenum	ppm	ASTM D5185(m)		38	12	32
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		165	175	679
Calcium	ppm	ASTM D5185(m)	3780	1922	1965	1427
Phosphorus	ppm	ASTM D5185(m)	1370	920	935	1095
Zinc	ppm	ASTM D5185(m)	1500	1070	1073	1252
Sulfur	ppm	ASTM D5185(m)	3800	2837	3086	3106
Oxidation	Abs/.1mm	ASTM D7414*	>25	10.2	14.8	11.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.6	▲ 12.8	13.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006184 **Received** : 24 May 2024
Lab Number : 02637385 **Tested** : 27 May 2024
Unique Number : 5786547 **Diagnosed** : 27 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: PercentFuel)

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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.