



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[86985]

Machine Id

7120 HURONTARIO 79210648 79210648

Component

Rear Diesel Engine

Fluid

ESSO XD-3 EXTRA 15W40 (90 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006216	PN0004807	PN0003710
Sample Date		Client Info		15 Jun 2024	03 Jun 2023	24 Jun 2022
Machine Age	hrs	Client Info		445	421	393
Oil Age	hrs	Client Info		421	0	0
Filter Age	hrs	Client Info		421	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Not Chngd	Changed	Not Chngd
Sample Status				NORMAL	NORMAL	MARGINAL

WEAR

Metal levels are typical for a new component breaking in.

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

CONTAMINATION

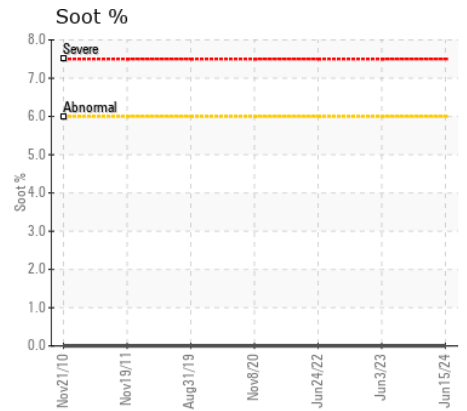
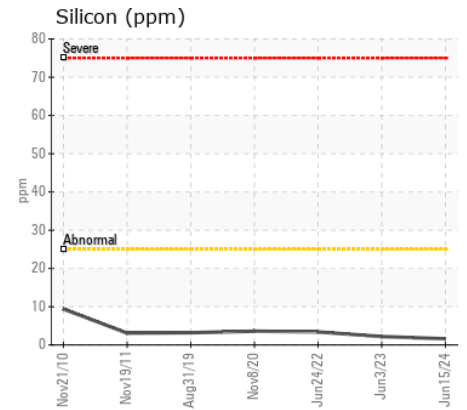
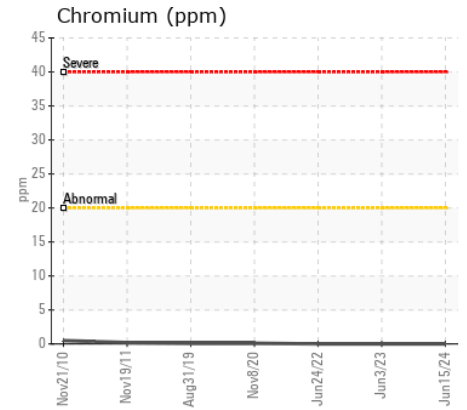
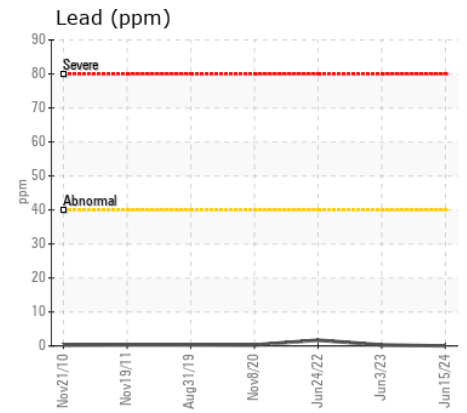
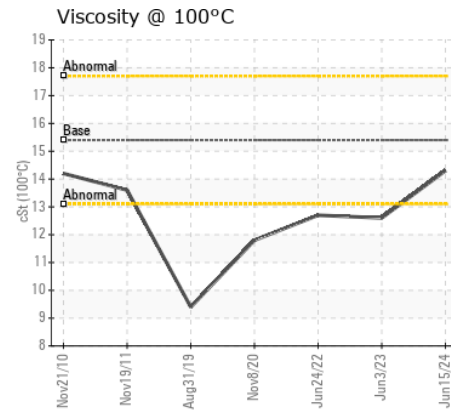
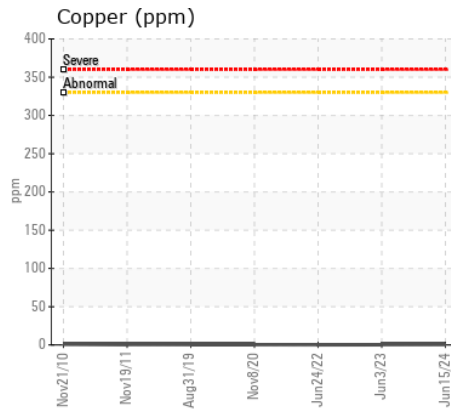
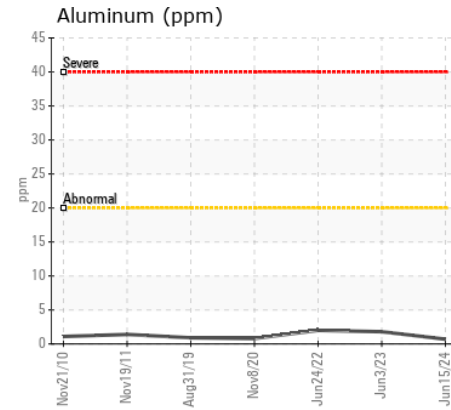
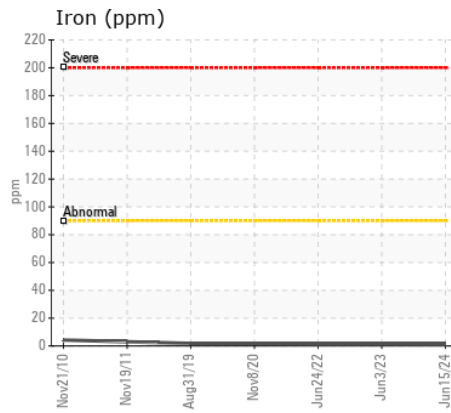
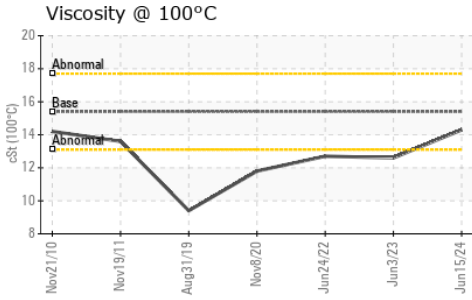
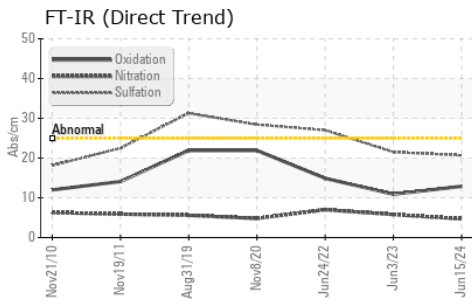
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	2	3
Potassium	ppm	ASTM D5185(m)	>20	<1	2	1
Fuel		WC Method	>3.0	<1.0	<1.0	▲ 1.1
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	4.7	5.8	7.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.7	21.5	27.0
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	1	1	3
Boron	ppm	ASTM D5185(m)		6	48	66
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		49	10	82
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		837	40	61
Calcium	ppm	ASTM D5185(m)	3780	1144	2278	2259
Phosphorus	ppm	ASTM D5185(m)	1370	815	1156	1075
Zinc	ppm	ASTM D5185(m)	1500	852	1222	1214
Sulfur	ppm	ASTM D5185(m)	3800	2370	2828	3029
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.9	10.9	14.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.3	12.6	12.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006216
Lab Number : 02643939
Unique Number : 5801478
Test Package : MOB 1
Received : 25 Jun 2024
Tested : 25 Jun 2024
Diagnosed : 25 Jun 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.