



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[86957]

Machine Id

455 PHILLIPS ST WATERLOO UNIT 5 KIPLING REALTY 383485

Component

Left Diesel Engine

Fluid

ESSO XD-3 EXTRA 15W40 (30 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PN0006273	PN0003735	PN0002574
Sample Date		Client Info		13 Jun 2024	28 Jun 2022	10 Jun 2021
Machine Age	hrs	Client Info		373	349	331
Oil Age	hrs	Client Info		7	18	0
Filter Age	hrs	Client Info		7	18	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	1	2	2
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>4	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<1	2	1
Lead	ppm	ASTM D5185(m)	>40	0	2	<1
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

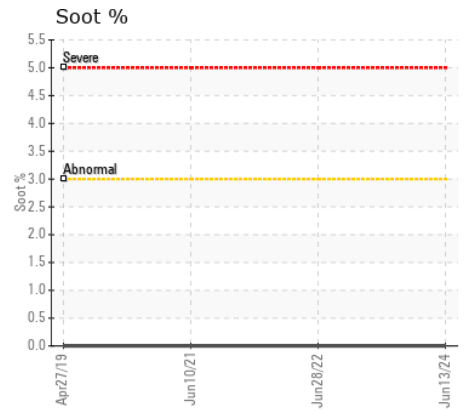
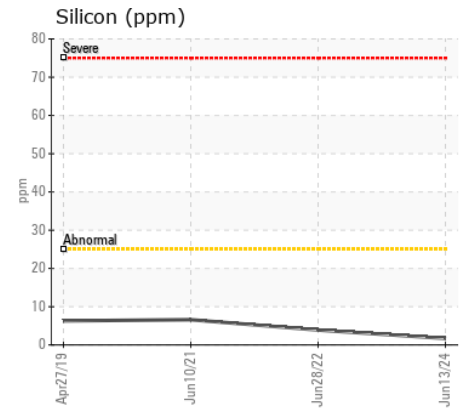
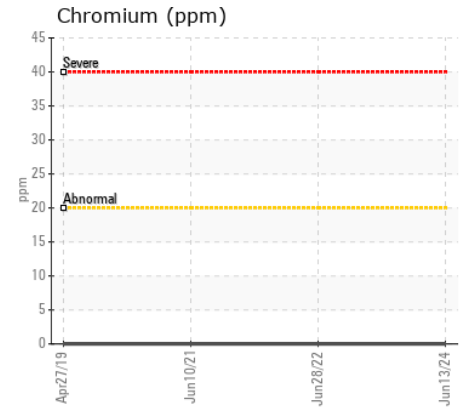
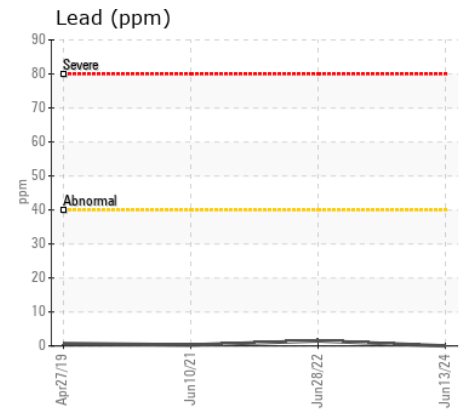
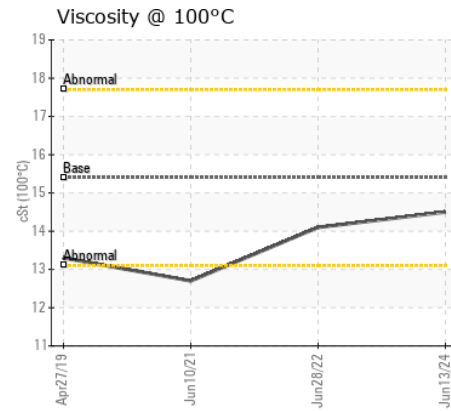
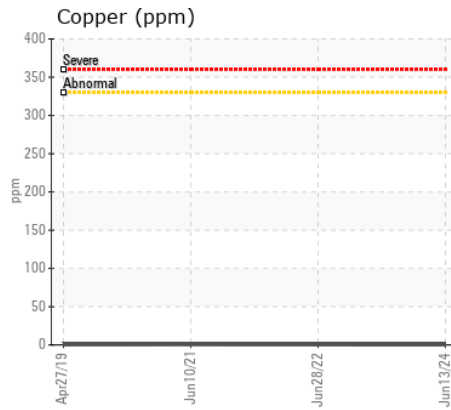
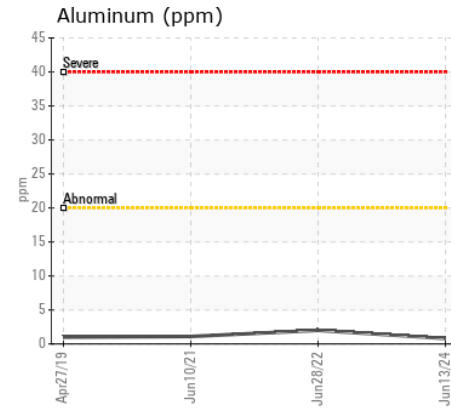
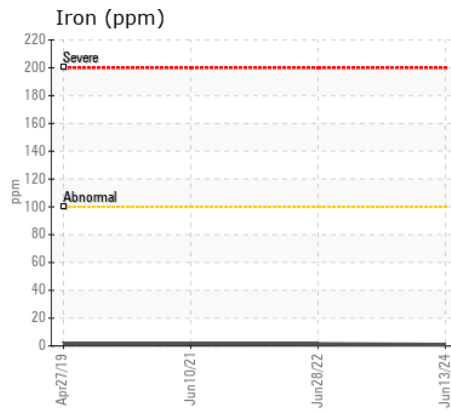
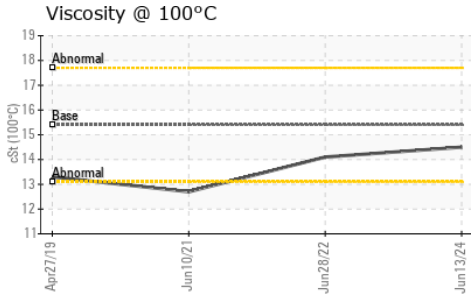
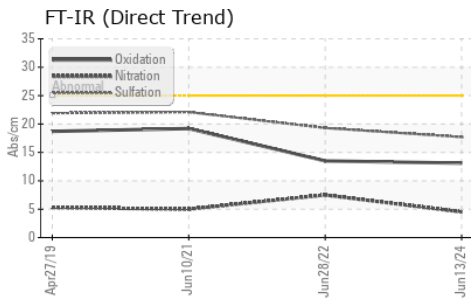
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	4	7
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
Fuel		WC Method	>5	<1.0	<1.0	0.7
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	4.5	7.5	5.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.7	19.3	22.1
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	2	2
Boron	ppm	ASTM D5185(m)		4	72	63
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		54	81	37
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		879	56	481
Calcium	ppm	ASTM D5185(m)	3780	1120	2200	1555
Phosphorus	ppm	ASTM D5185(m)	1370	989	999	701
Zinc	ppm	ASTM D5185(m)	1500	1154	1135	845
Sulfur	ppm	ASTM D5185(m)	3800	2575	3284	2114
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.1	13.5	19.2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.5	14.1	12.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006273
Lab Number : 02643647
Unique Number : 5801186
Test Package : MOB 1
Received : 24 Jun 2024
Tested : 24 Jun 2024
Diagnosed : 24 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.