



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
KIPLING REALTY [86939]
 Machine Id
455 PHILLIPS ST WATERLOO, UNIT 1 387822 387822
 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		PN0006295	PN0003791	PN0002483
Sample Date		Client Info		12 Jun 2024	10 Jul 2022	09 Jun 2021
Machine Age	hrs	Client Info		490	467	449
Oil Age	hrs	Client Info		5	0	15
Filter Age	hrs	Client Info		5	0	15
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	1
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>4	0	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	3
Lead	ppm	ASTM D5185(m)	>40	0	<1	<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	<1

CONTAMINATION

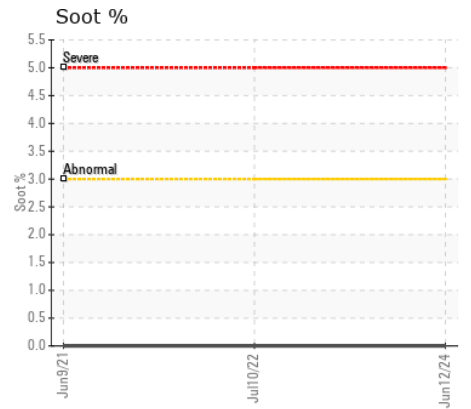
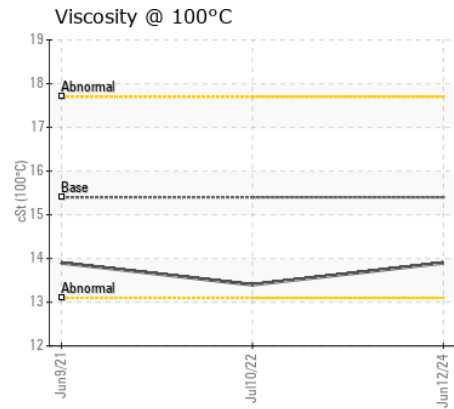
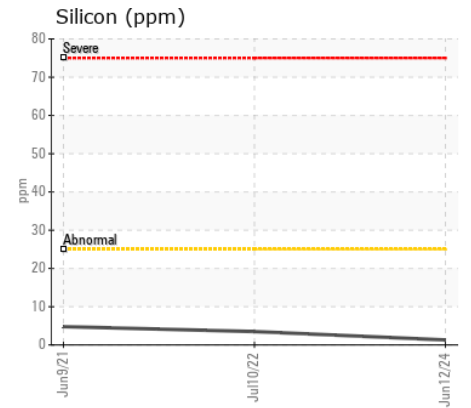
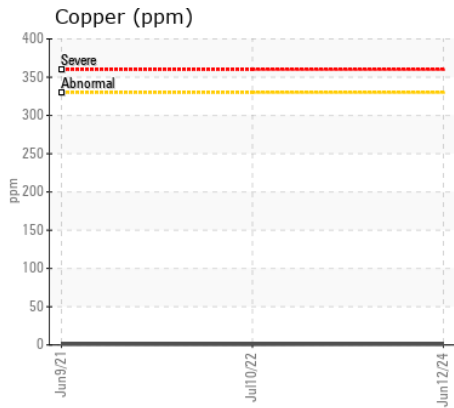
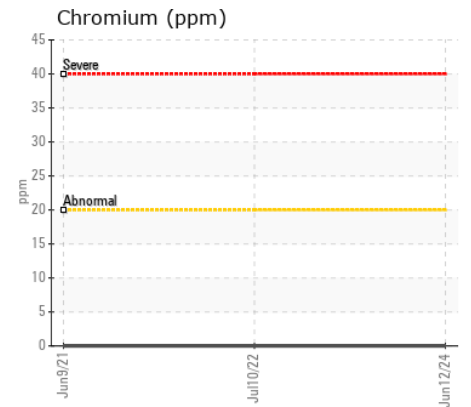
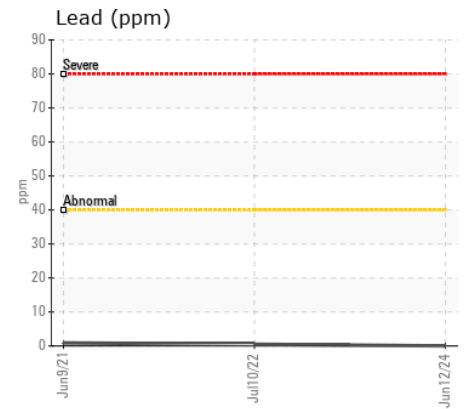
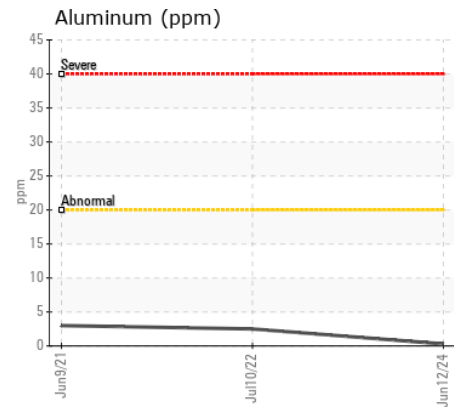
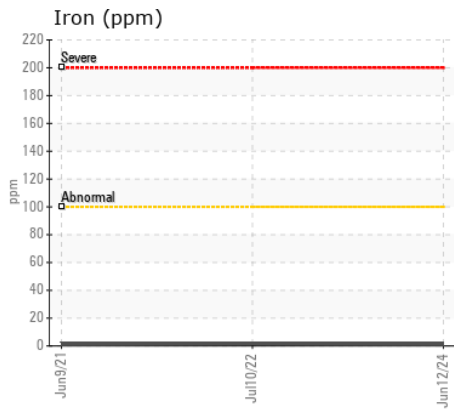
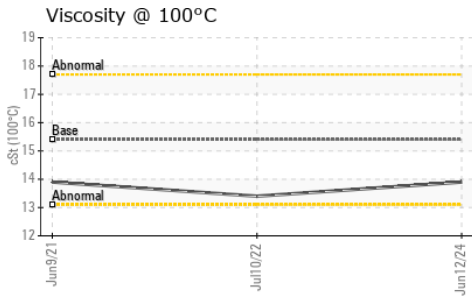
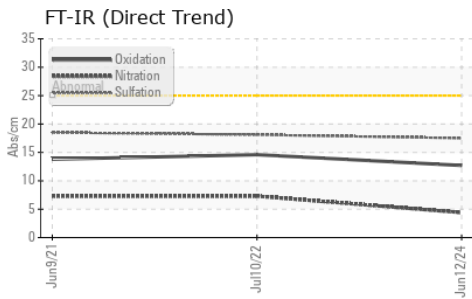
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	1	4	5
Potassium	ppm	ASTM D5185(m)	>20	0	0	<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	4.4	7.3	7.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.5	18.1	18.5
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	71	69
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		53	75	74
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		879	100	70
Calcium	ppm	ASTM D5185(m)	3780	1068	2082	1997
Phosphorus	ppm	ASTM D5185(m)	1370	966	947	977
Zinc	ppm	ASTM D5185(m)	1500	1102	1080	1142
Sulfur	ppm	ASTM D5185(m)	3800	2514	3095	3185
Oxidation	Abs/.1mm	ASTM D7414*	>25	12.7	14.6	13.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.9	13.4	13.9



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0006295 **Received** : 14 Jun 2024
Lab Number : 02641890 **Tested** : 14 Jun 2024
Unique Number : 5799429 **Diagnosed** : 14 Jun 2024 - Wes Davis
Test Package : MOB 1

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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.