



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

**[86975]**

Machine Id

**455 PHILLIPS ST WATERLOO KIPLING REALTY UNIT 7**

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		<b>PN0006301</b>	PN0003781	PN0001443
Sample Date		Client Info		<b>14 Jun 2024</b>	12 Jul 2022	27 Jul 2020
Machine Age	hrs	Client Info		<b>228</b>	212	208
Oil Age	hrs	Client Info		<b>7</b>	0	0
Filter Age	hrs	Client Info		<b>7</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	<b>2</b>	35	2
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	3	1
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	3	0
Copper	ppm	ASTM D5185(m)	>330	<b>3</b>	18	<1
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

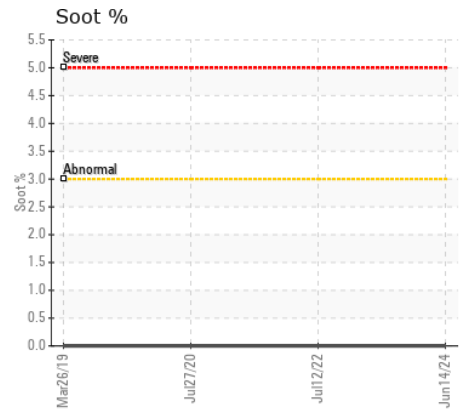
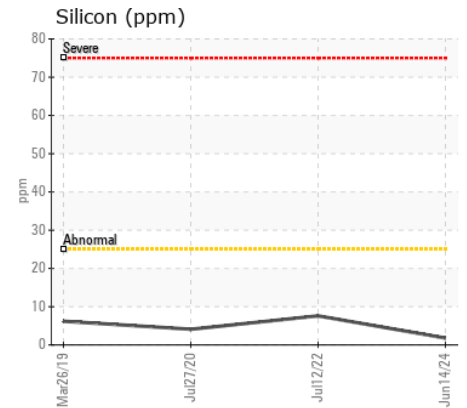
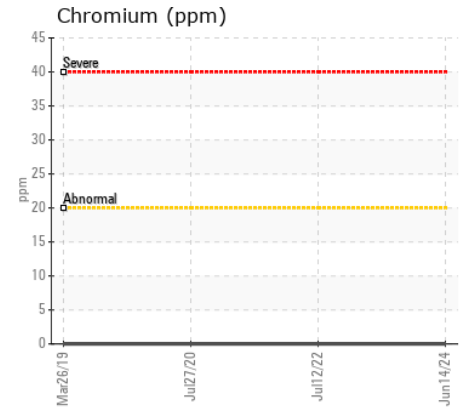
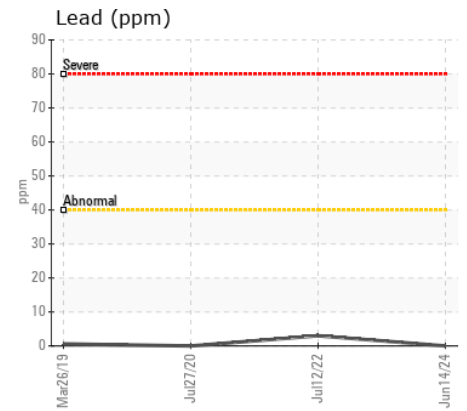
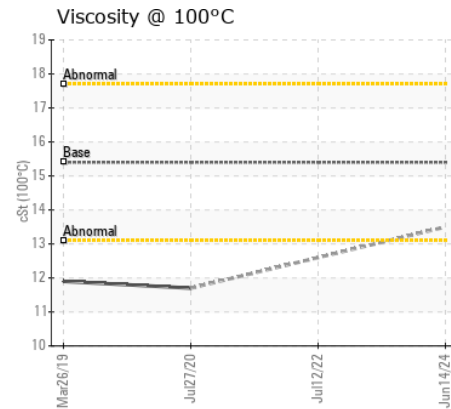
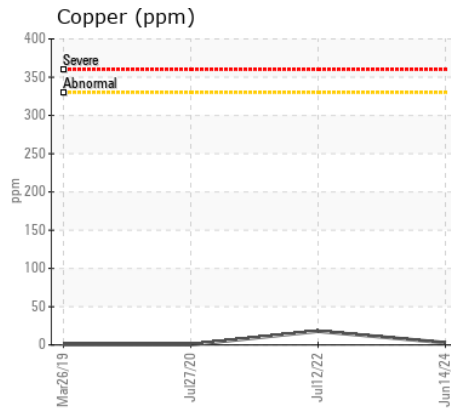
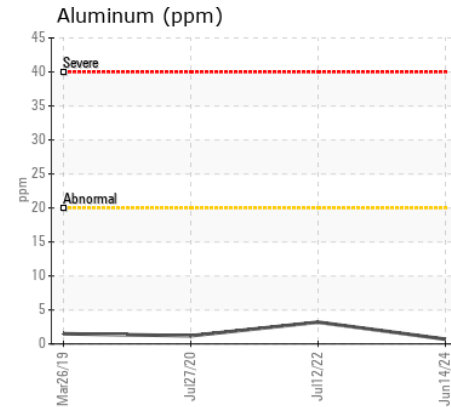
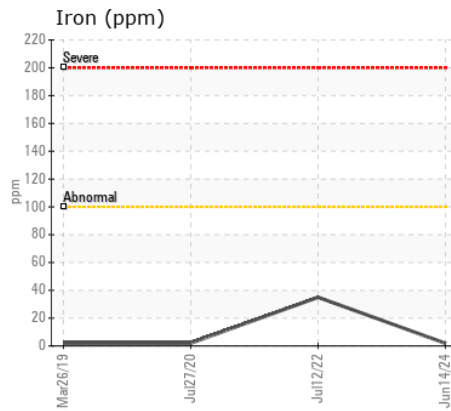
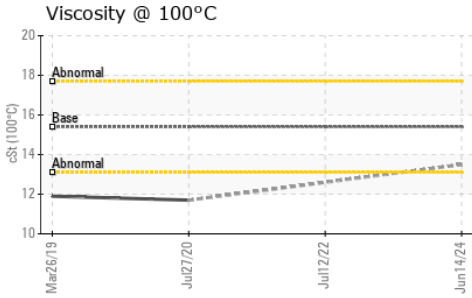
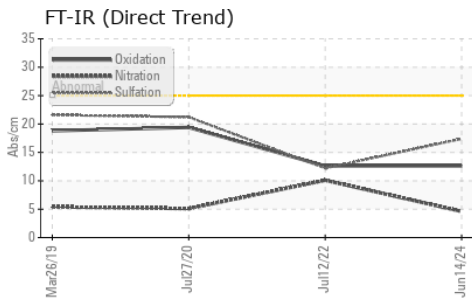
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>2</b>	8	4
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1
Fuel		WC Method	>5	<b>&lt;1.0</b>	▲ 4.5	▲ 4.2
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	▲ 0.02	NEG
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>4.6</b>	10.1	5.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.4</b>	12.2	21.2
Silt	scalar	Visual*	NONE	<b>NONE</b>	VLITE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	▲ HAZY	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	▲ .5%	NEG

**FLUID CONDITION**

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>192	<b>1</b>	4	<1
Boron	ppm	ASTM D5185(m)		<b>3</b>	58	64
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>52</b>	65	37
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>844</b>	24	463
Calcium	ppm	ASTM D5185(m)	3780	<b>1098</b>	1710	1475
Phosphorus	ppm	ASTM D5185(m)	1370	<b>960</b>	918	703
Zinc	ppm	ASTM D5185(m)	1500	<b>1123</b>	1083	▲ 804
Sulfur	ppm	ASTM D5185(m)	3800	<b>2523</b>	3143	▲ 2002
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>12.6</b>	12.6	19.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	<b>13.5</b>	---	▲ 11.7



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PN0006301 **Received** : 24 Jun 2024  
**Lab Number** : 02643648 **Tested** : 24 Jun 2024  
**Unique Number** : 5801187 **Diagnosed** : 24 Jun 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Visual )

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.

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