



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
675 COCHRANE DR EAST TOWER CROWN PROPERTY RG6076A136489

Component
Right 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		PN0005805	PN0004705	PN0003376
Sample Date		Client Info		05 Mar 2024	04 Apr 2023	15 Mar 2022
Machine Age	hrs	Client Info		452	427	380
Oil Age	hrs	Client Info		25	47	0
Filter Age	hrs	Client Info		25	47	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>51	2	3	3
Chromium	ppm	ASTM D5185(m)	>11	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>31	1	3	<1
Lead	ppm	ASTM D5185(m)	>26	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>26	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>4	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

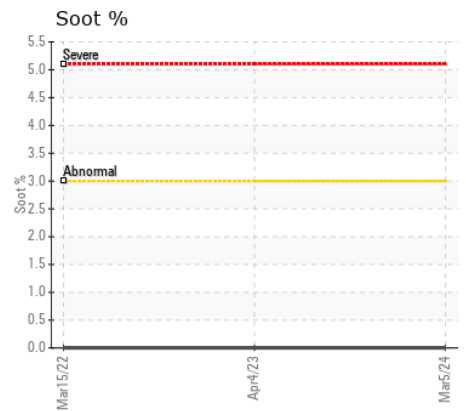
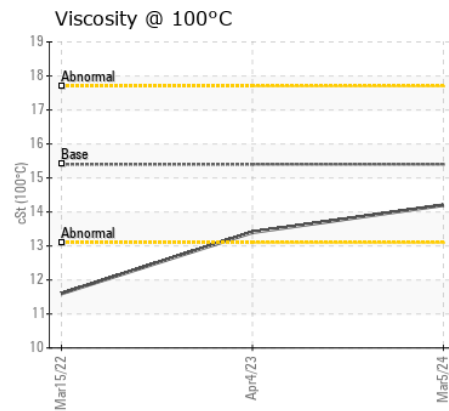
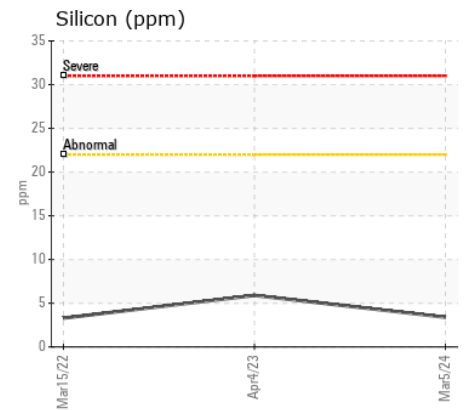
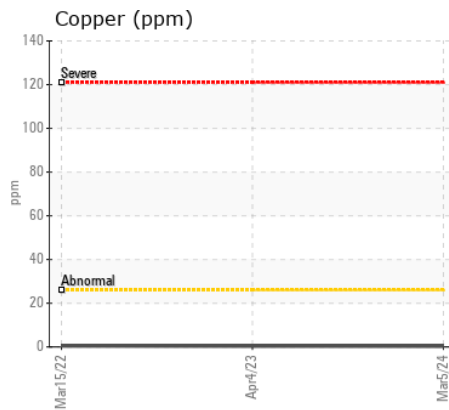
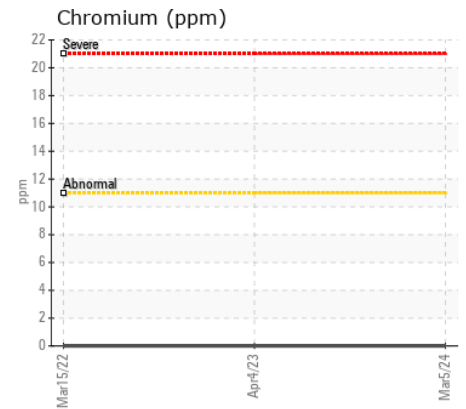
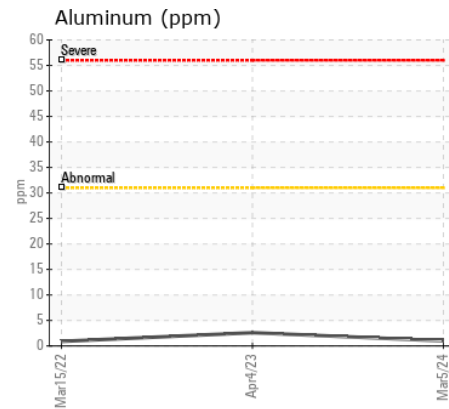
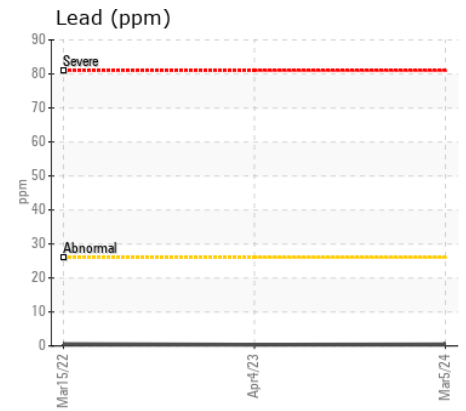
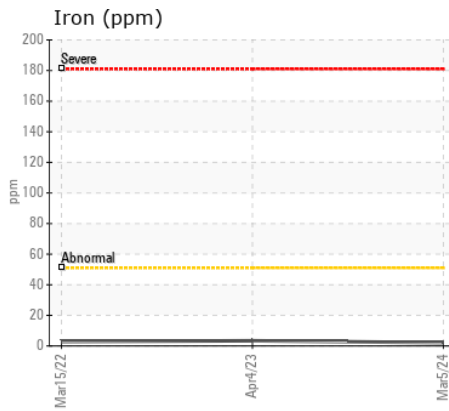
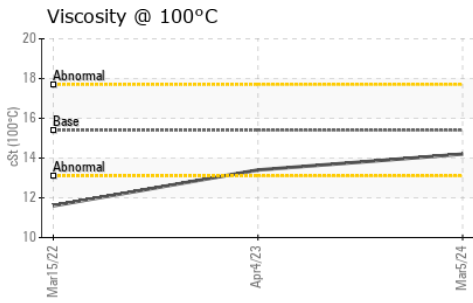
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	3	6	3
Potassium	ppm	ASTM D5185(m)	>20	<1	10	1
Fuel		WC Method	>2.1	<1.0	<1.0	1
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	5.3	7.8	5.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	17.6	20.8	23.6
Emulsified Water	scalar	Visual*	>0.21	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)		13	73	73
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		60	82	33
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		799	76	459
Calcium	ppm	ASTM D5185(m)	3780	1222	2264	1680
Phosphorus	ppm	ASTM D5185(m)	1370	1030	1126	968
Zinc	ppm	ASTM D5185(m)	1500	1159	1169	1080
Sulfur	ppm	ASTM D5185(m)	3800	2864	3352	2564
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.3	14.4	20.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.2	13.4	▲ 11.6



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PN0005805 **Received** : 07 Mar 2024
Lab Number : 02620455 **Tested** : 07 Mar 2024
Unique Number : 5737565 **Diagnosed** : 07 Mar 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.