



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
KUBOTA RTV-X1140 MCP738
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON HP 15W40 (--- LTR)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
 Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0925880	WC0892426	WC0892415
Sample Date		Client Info		27 Apr 2024	19 Mar 2024	10 Mar 2024
Machine Age	hrs	Client Info		3789	3613	3593
Oil Age	hrs	Client Info		0	0	250
Filter Age	hrs	Client Info		0	0	250
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	36	15	62
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)		<1	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	6	3	7
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	3	2	3
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

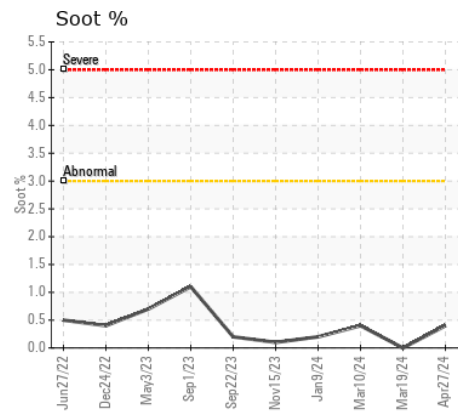
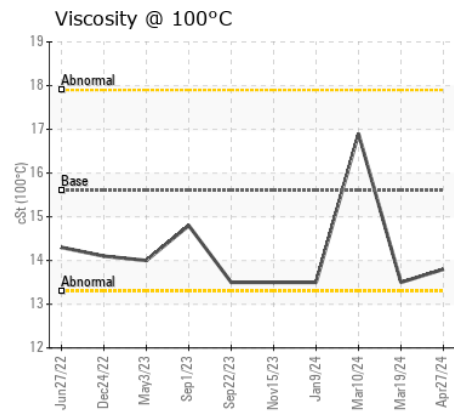
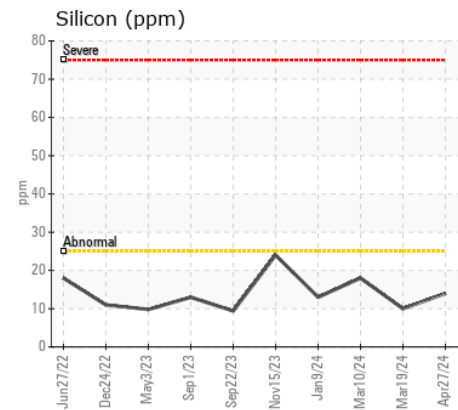
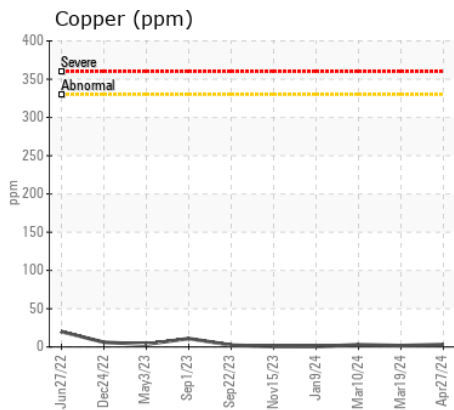
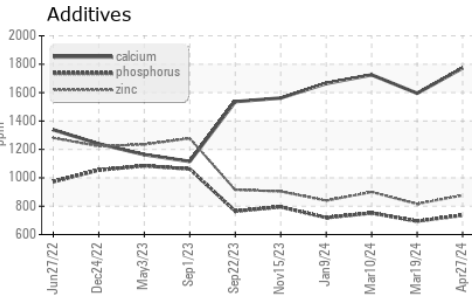
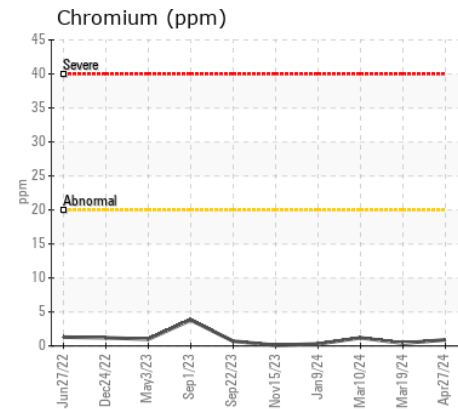
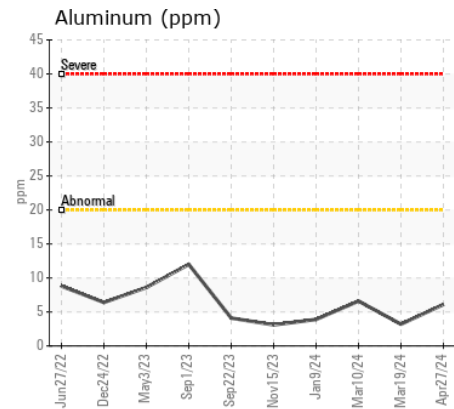
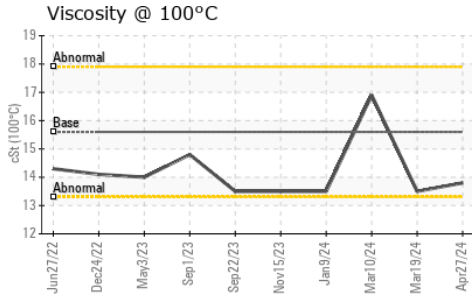
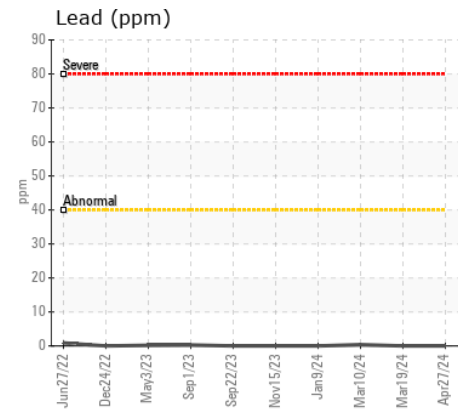
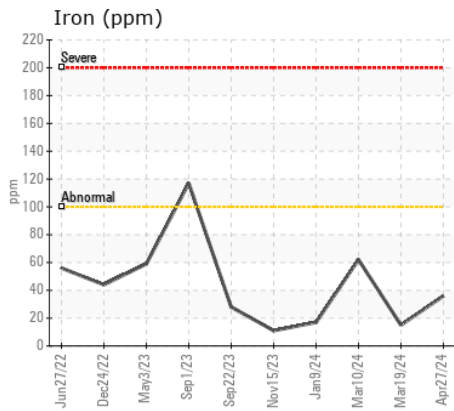
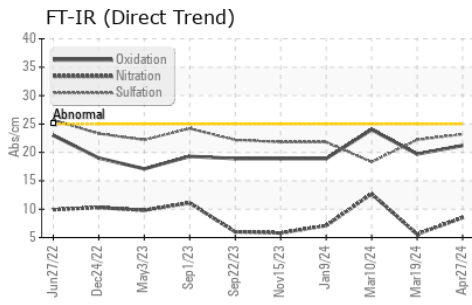
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	14	10	18
Potassium	ppm	ASTM D5185(m)	>20	2	2	7
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	0.4	0	0.4
Nitration	Abs/cm	ASTM D7624*	>20	8.5	5.6	12.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.2	22.2	18.3
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	NONE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	▲ .2%

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil.
 The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		26	23	● 145
Boron	ppm	ASTM D5185(m)	0	41	52	65
Barium	ppm	ASTM D5185(m)	0	2	1	0
Molybdenum	ppm	ASTM D5185(m)	60	41	38	44
Manganese	ppm	ASTM D5185(m)	0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	519	483	526
Calcium	ppm	ASTM D5185(m)	1070	1773	1595	1725
Phosphorus	ppm	ASTM D5185(m)	1150	736	694	752
Zinc	ppm	ASTM D5185(m)	1270	876	816	900
Sulfur	ppm	ASTM D5185(m)	2060	2018	1988	2255
Oxidation	Abs/.1mm	ASTM D7414*	>25	21.2	19.7	24.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	13.8	13.5	16.9



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0925880 **Received** : 30 Apr 2024
Lab Number : 02632249 **Tested** : 30 Apr 2024
Unique Number : 5773402 **Diagnosed** : 30 Apr 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Visual)

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