



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**KUBOTA RTV-X1140 MCP740**  
Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0902347</b>	WC0848140	WC0798636
Sample Date		Client Info		<b>18 Feb 2024</b>	16 Nov 2023	06 Jul 2023
Machine Age	hrs	Client Info		<b>4672</b>	4277	3788
Oil Age	hrs	Client Info		<b>0</b>	250	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	MARGINAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>56</b>	67	21
Chromium	ppm	ASTM D5185(m)	>20	<b>1</b>	2	2
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>7</b>	9	4
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>330	<b>5</b>	11	8
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

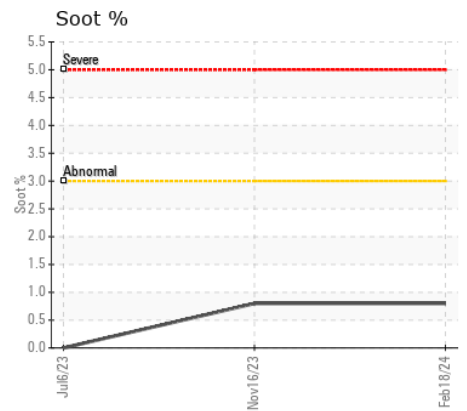
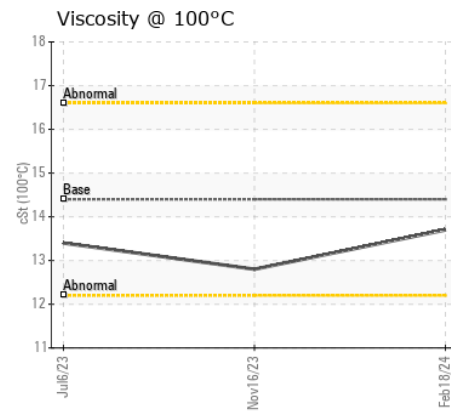
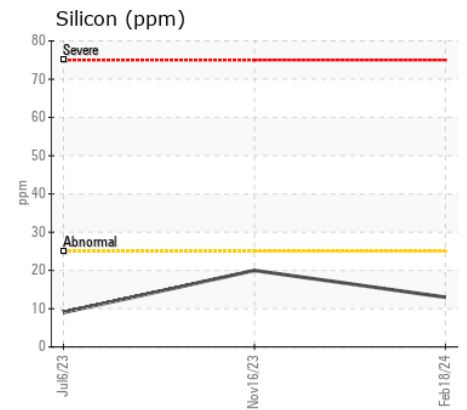
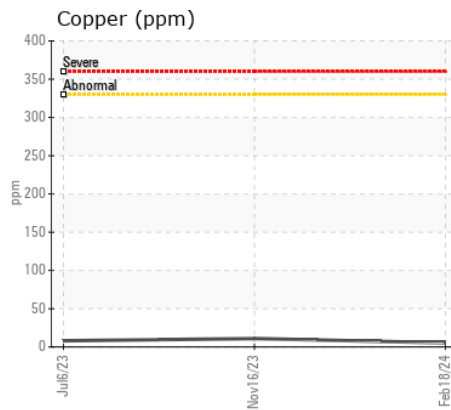
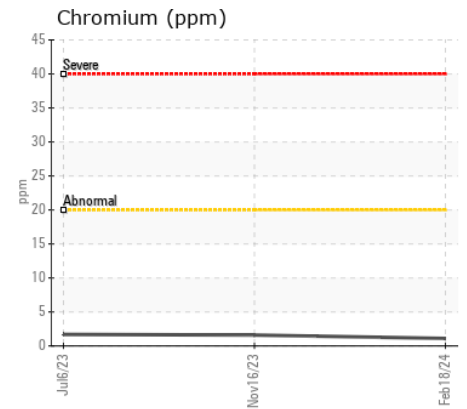
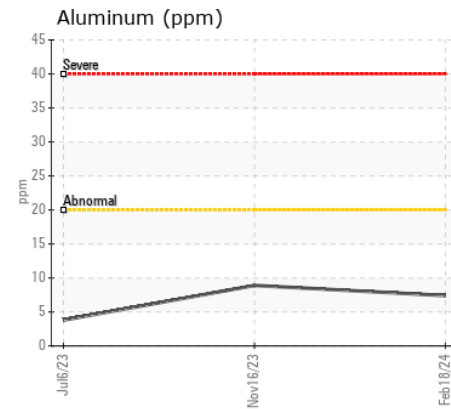
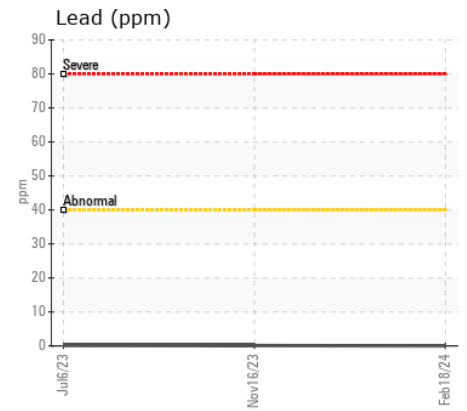
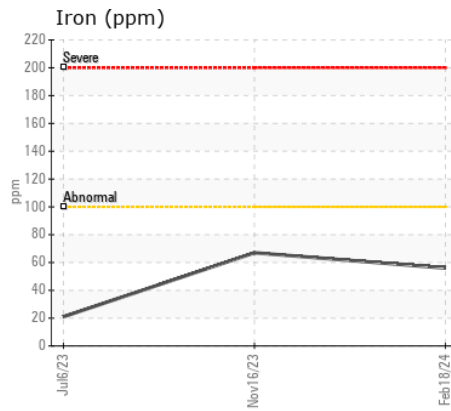
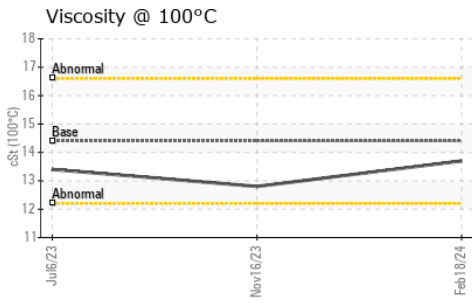
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>13</b>	20	9
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	2	3
Fuel		WC Method	>5	<b>&lt;1.0</b>	▲ 4	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>3	<b>0.8</b>	0.8	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.6</b>	11.4	5.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>24.8</b>	26.1	19.7
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>158	<b>3</b>	7	18
Boron	ppm	ASTM D5185(m)	250	<b>30</b>	34	30
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	100	<b>45</b>	42	57
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>577</b>	523	792
Calcium	ppm	ASTM D5185(m)	3000	<b>1738</b>	1721	1220
Phosphorus	ppm	ASTM D5185(m)	1150	<b>773</b>	703	948
Zinc	ppm	ASTM D5185(m)	1350	<b>931</b>	889	1044
Sulfur	ppm	ASTM D5185(m)	4250	<b>2055</b>	1897	2365
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>24.1</b>	26.8	16.2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>13.7</b>	12.8	13.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0902347  
**Lab Number** : 02616950  
**Unique Number** : 5734060  
**Test Package** : MOB 1

**Received** : 21 Feb 2024  
**Tested** : 22 Feb 2024  
**Diagnosed** : 22 Feb 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.