



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
KUBOTA RTV-X1140 MCP760
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0879680	WC0820191	---
Sample Date		Client Info		14 Feb 2024	19 Oct 2023	---
Machine Age	hrs	Client Info		751	480	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	80	45	---
Chromium	ppm	ASTM D5185(m)	>20	3	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>3	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	35	13	---
Lead	ppm	ASTM D5185(m)	>40	<1	<1	---
Copper	ppm	ASTM D5185(m)	>330	12	6	---
Tin	ppm	ASTM D5185(m)	>15	<1	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

There is a moderate concentration of water present in the oil. Test for glycol is negative.

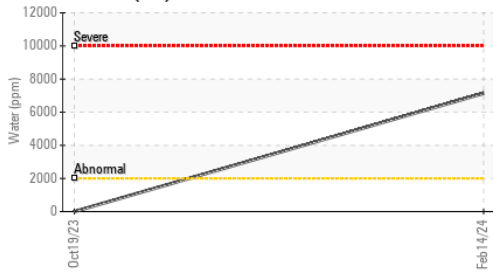
Silicon	ppm	ASTM D5185(m)	>25	56	11	---
Potassium	ppm	ASTM D5185(m)	>20	13	<1	---
Fuel		WC Method	>5	<1.0	1	---
Water	%	ASTM D6304*	>0.2	▲ 0.714	---	---
ppm Water	ppm	ASTM D6304*	>2000	▲ 7141	---	---
Glycol	%	ASTM D7922*		0.0	NEG	---
Soot %	%	ASTM D7844*	>3	0.6	0.4	---
Nitration	Abs/cm	ASTM D7624*	>20	13.1	9.8	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.2	23.7	---
Emulsified Water	scalar	Visual*	>0.2	▲ .2%	NEG	---

FLUID CONDITION

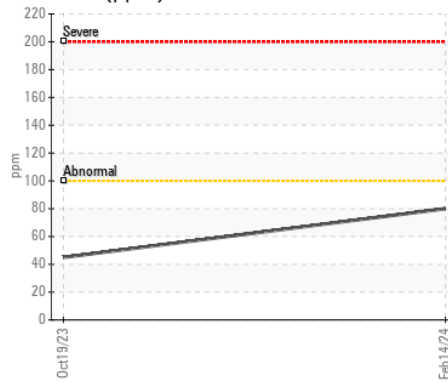
The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)	>158	16	3	---
Boron	ppm	ASTM D5185(m)	250	37	40	---
Barium	ppm	ASTM D5185(m)	10	<1	<1	---
Molybdenum	ppm	ASTM D5185(m)	100	47	49	---
Manganese	ppm	ASTM D5185(m)		<1	<1	---
Magnesium	ppm	ASTM D5185(m)	450	608	512	---
Calcium	ppm	ASTM D5185(m)	3000	1745	1835	---
Phosphorus	ppm	ASTM D5185(m)	1150	837	757	---
Zinc	ppm	ASTM D5185(m)	1350	982	919	---
Sulfur	ppm	ASTM D5185(m)	4250	2275	2048	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	24.3	22.5	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	37.0	11.9	---

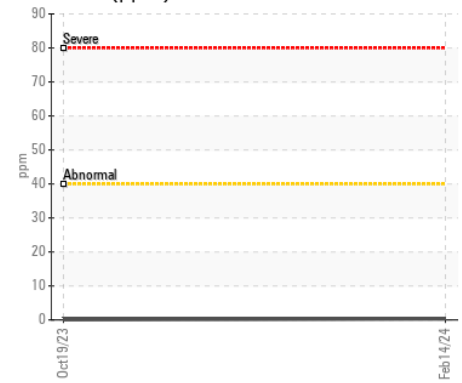
▲ Water (KF)



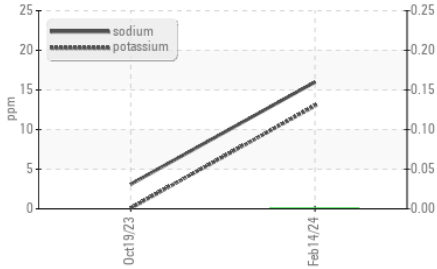
Iron (ppm)



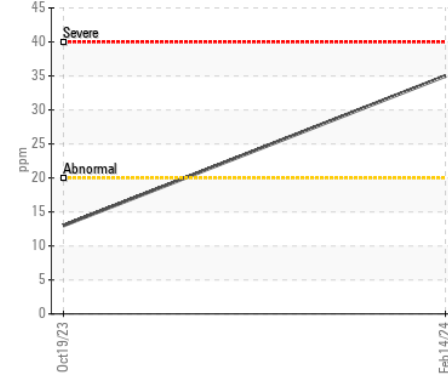
Lead (ppm)



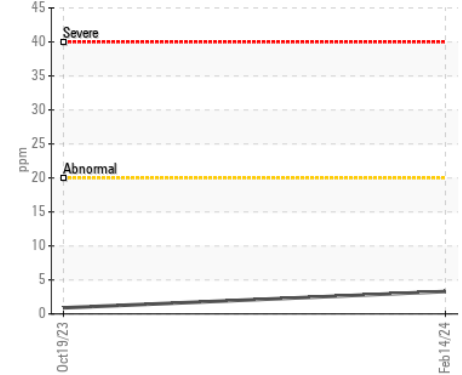
Glycol Contamination



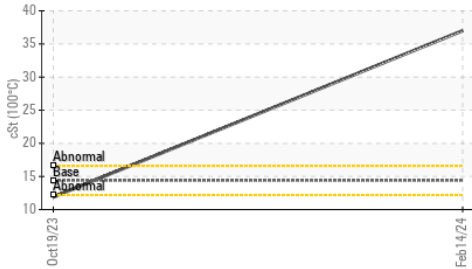
Aluminum (ppm)



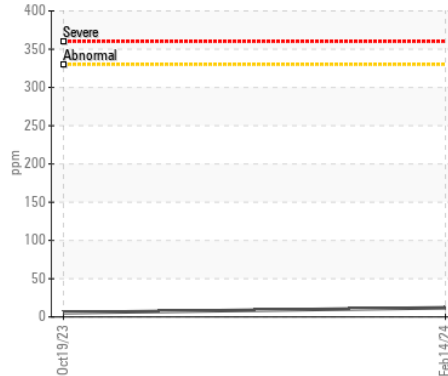
Chromium (ppm)



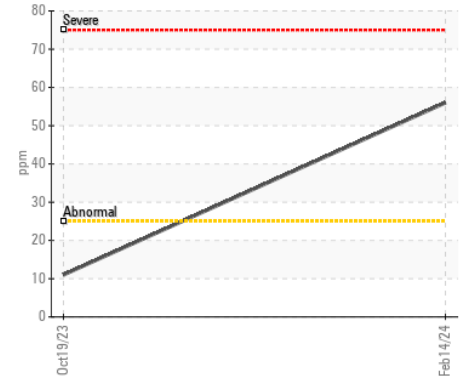
Viscosity @ 100°C



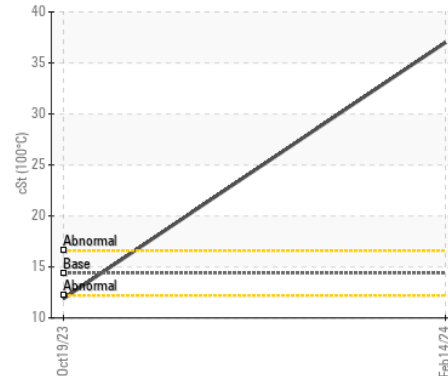
Copper (ppm)



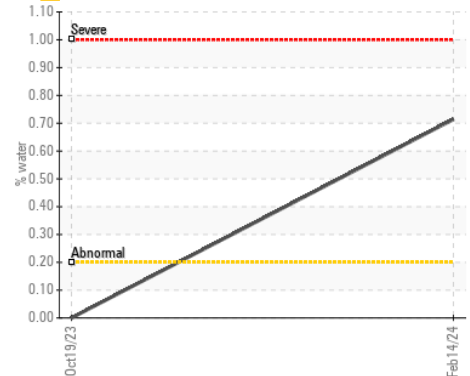
Silicon (ppm)



Viscosity @ 100°C



▲ Water



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0879680 **Received** : 21 Feb 2024
Lab Number : 02616949 **Tested** : 22 Feb 2024
Unique Number : 5734059 **Diagnosed** : 22 Feb 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, KF)

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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.