



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
KUBOTA RTV900 MCP728
Component
Diesel Engine
Fluid
MOBIL DELVAC 1200 SP15W40 (--- GAL)

RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. The filter 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		WC0861420	WC0892434	WC0848125
Sample Date		Client Info		08 Apr 2024	22 Jan 2024	18 Oct 2023
Machine Age	hrs	Client Info		4177	3897	3572
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				SEVERE	ABNORMAL	NORMAL

WEAR

Aluminum and iron ppm levels are severe. PQ levels are abnormal. Cylinder, crank, or cam shaft wear is indicated. Piston wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184*		▲ 146	---	---
Iron	ppm	ASTM D5185(m)	>100	▲ 489	30	42
Chromium	ppm	ASTM D5185(m)	>20	6	1	1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	0
Titanium	ppm	ASTM D5185(m)		3	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	▲ 96	11	14
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)	>330	11	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<1	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

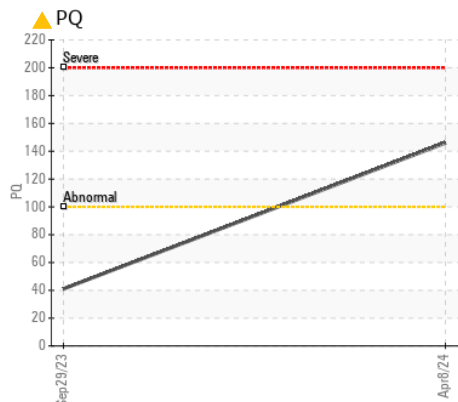
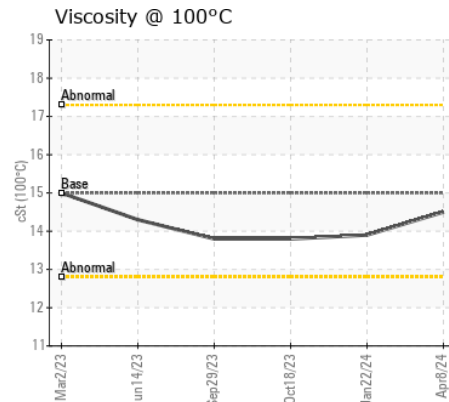
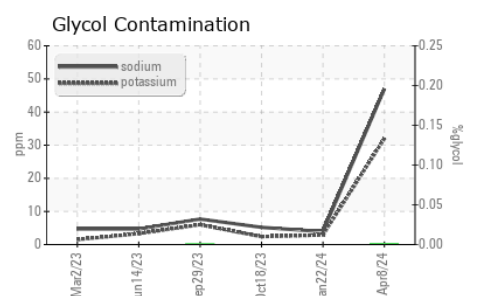
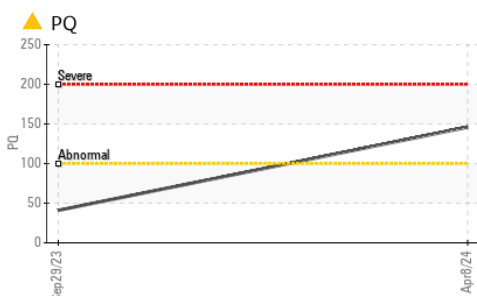
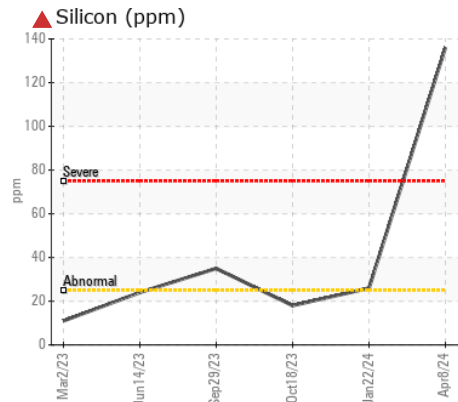
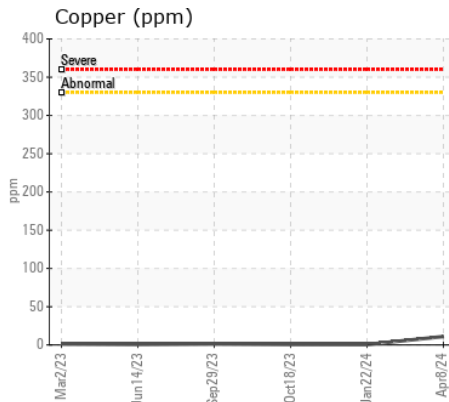
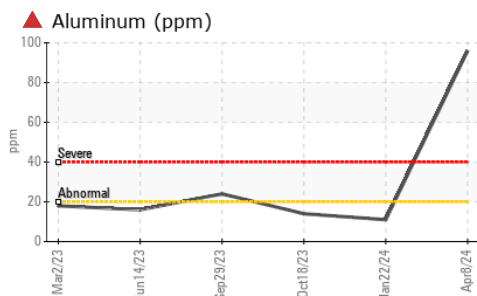
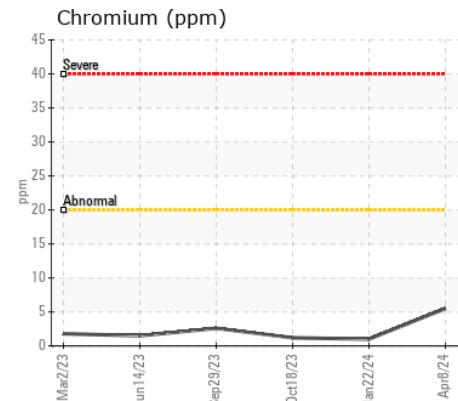
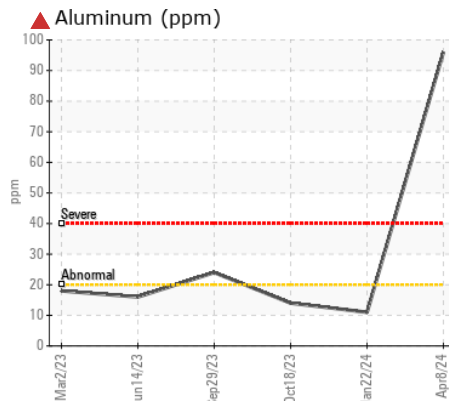
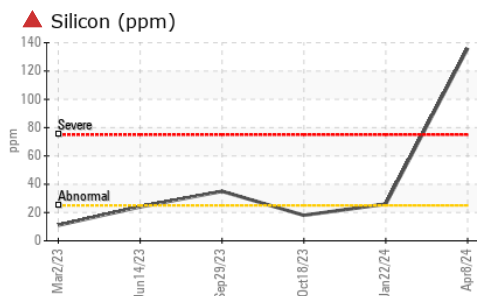
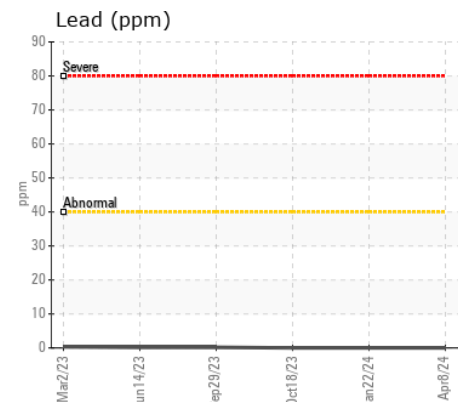
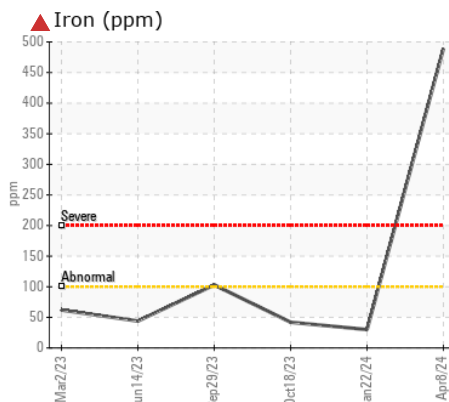
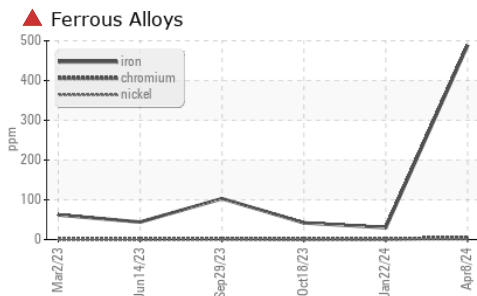
High concentration of dirt present in the oil. High amount of ingressed dirt has caused abrasive wear to the component.

Silicon	ppm	ASTM D5185(m)	>25	▲ 136	▲ 26	18
Potassium	ppm	ASTM D5185(m)	>20	32	3	2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	NEG
Soot %	%	ASTM D7844*	>3	1.2	0.7	0.4
Nitration	Abs/cm	ASTM D7624*	>20	11.0	8.5	6.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	26.0	24.4	22.4
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	NEG

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185(m)		47	4	5
Boron	ppm	ASTM D5185(m)		37	44	46
Barium	ppm	ASTM D5185(m)		3	0	<1
Molybdenum	ppm	ASTM D5185(m)		42	41	42
Manganese	ppm	ASTM D5185(m)		5	0	<1
Magnesium	ppm	ASTM D5185(m)		552	527	511
Calcium	ppm	ASTM D5185(m)		1964	1751	1758
Phosphorus	ppm	ASTM D5185(m)		780	742	740
Zinc	ppm	ASTM D5185(m)		951	868	876
Sulfur	ppm	ASTM D5185(m)		2105	2141	2043
Oxidation	Abs/.1mm	ASTM D7414*	>25	22.7	21.6	19.9
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	14.5	13.9	13.8



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0861420 **Received** : 10 Apr 2024
Lab Number : 02627795 **Tested** : 10 Apr 2024
Unique Number : 5760927 **Diagnosed** : 10 Apr 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: Glycol, PQ, Visual)

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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.