

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

X

Machine Id **KUBOTA RTV900 MCP728**

Diesel Engine Fluic MOBIL DELVAC 1200 SP15W40 (--- GAL)

DIAGNOSIS

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.

A 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.

Contamination

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

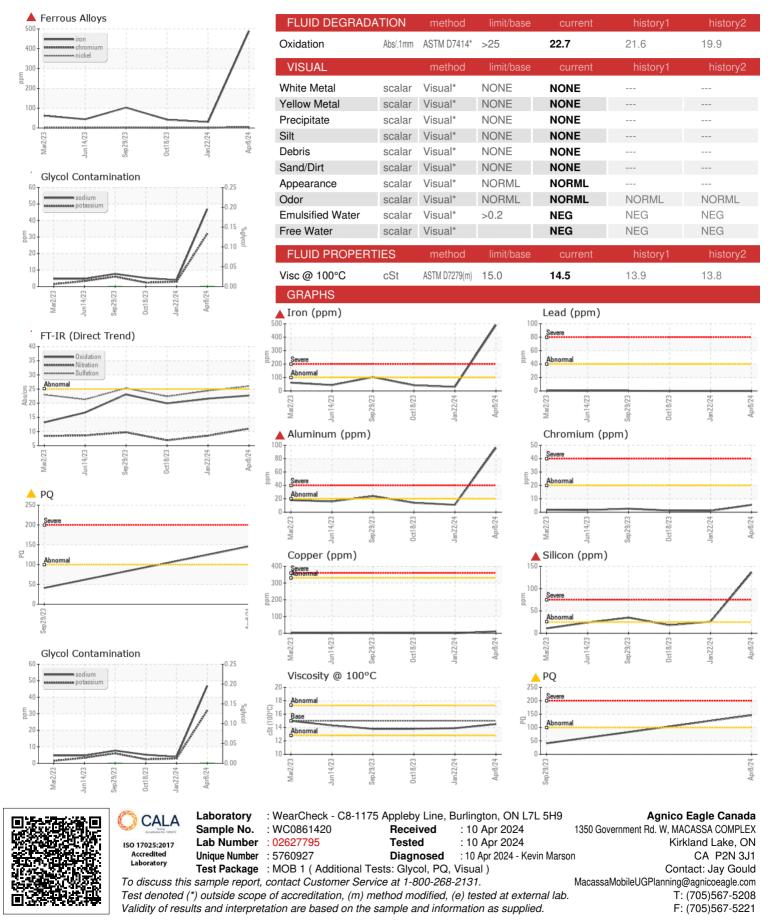
Fluid Condition

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

		Mar2023	Jun2023 Sep2023	0ct2023 Jan2024	Apr2024	
SAMPLE INFORM	ATION	method	limit/base	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
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				SEVERE	ABNORMAL	NORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		4 146		
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	9 6	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
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
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
Lithium	ppm	ASTM D5185(m)		1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	1 36	2 6	18
Sodium	ppm	ASTM D5185(m)		47	4	5
Potassium	ppm	ASTM D5185(m)	>20	32	3	2
Glycol	%	ASTM D7922*		0.0	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
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



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