

OIL ANALYSIS REPORT

Sample Rating Trend

DIRT



KUBOTA RTV900 MCP728

Component

Diesel Engine

PETRO CANADA DURON HP 15W40 (--- 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 recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

Wear

Aluminum and iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated. Piston wear is indicated.

Contamination

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

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

AL)		Ma	2023	Jun2023 Sep20	3	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0848134	WC0650149	WC
Sample Date		Client Info		29 Sep 2023	14 Jun 2023	02 Mar 2023
Machine Age	hrs	Client Info		3502	3015	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		41		
Iron	ppm	ASTM D5185(m)	>100	<u> </u>	44	62
Chromium	ppm	ASTM D5185(m)	>20	3	2	2
Nickel	ppm	ASTM D5185(m)	>4	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	4 24	16	18
Lead	ppm	ASTM D5185(m)	>40	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>330	2	<1	2
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
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)	0	36	6	35
Barium	ppm	ASTM D5185(m)	0	<1	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	44	58	111
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	554	923	965
Calcium	ppm	ASTM D5185(m)	1070	1787	1138	1270
Phosphorus	ppm	ASTM D5185(m)	1150	756	1029	1053
Zinc	ppm	ASTM D5185(m)	1270	924	1173	1218
Sulfur	ppm	ASTM D5185(m)	2060	2022	2449	2617
Lithium	ppm	ASTM D5185(m)		<1	1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	▲ 35	24	11
Sodium	ppm	ASTM D5185(m)		8	5	5
Potassium	ppm	ASTM D5185(m)	>20	6	3	2
Glycol	%	ASTM D7922*		0.0	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	1.1	1	1
Nitration	Abs/cm	ASTM D7624*	>20	9.7	8.6	8.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.3	21.3	23.0



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