OIL ANALYSIS REPORT

WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL** NORMAL

CATERPILLAR 216B SKIDSTEER RLL01624

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06086728		
	Sample Date		Client Info		02 Feb 2024		
	Machine Age	hrs	Client Info		16369		
	Oil Age	hrs	Client Info		300		
	Filter Age	hrs	Client Info		300		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
VEAR	Iron	ppm	ASTM D5185m	>100	10		
VLAN	Chromium		ASTM D5185m		0		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m				
	Silver	ppm			5		
		ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		4		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		0		
	Tin	ppm	ASTM D5185m	>10	0		
	Vanadium	ppm	ASTM D5185m	NONE	-		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	9		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2		
	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	7.6		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	16.7		
	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		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
I LUD CONDITION	Codium	nnm	ACTM DE10Em		4		
LUID CONDITION	Sodium Boron	ppm	ASTM D5185m		1 28		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		113		
	Manganese	ppm	ASTM D5185m		113 <1		
		ppm	ASTM D5185m		109		
	Magnesium	ppm					
	Calcium	ppm	ASTM D5185m		3821		
	Phosphorus	ppm	ASTM D5185m		851		
	Zinc	ppm	ASTM D5185m		1041		
	Sulfur	ppm Aba/1mm	ASTM D5185m	05	4047		
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414	>25	10.2 15.74		
					1h //		





Certificate L2367

Laboratory Sample No.

Lab Number : 06086728

Unique Number : 10874173 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TR06086728 Received : 12 Feb 2024 : 13 Feb 2024 **Tested**

: 13 Feb 2024 - Wes Davis Diagnosed

RUNDELL INC 2465 STATE HWY 38 DRAIN, OR

US 97435 Contact: JEFF WARREN

To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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