OIL ANALYSIS REPORT

WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

Machine Id

JOHN DEERE 4000 RAKE

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Number		Client Info		TR05957160	TR05887537	
	Sample Date		Client Info		13 Sep 2023	23 Jun 2023	
	Machine Age	hrs	Client Info		8070	7940	
	Oil Age	hrs	Client Info		150	50	
	Filter Age	hrs	Client Info		150	50	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	Not Changd	
	Sample Status				NORMAL	NORMAL	
WEAR							
WEAR	Iron	ppm	ASTM D5185m		9	5	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	
	Nickel	ppm	ASTM D5185m	>4	0	<1	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m		0	<1	
	Aluminum	ppm	ASTM D5185m		<1	2	
	Lead	ppm	ASTM D5185m		3	0	
	Copper	ppm	ASTM D5185m		<1	<1	
	Tin	ppm	ASTM D5185m	>15	<1	<1	
	Vanadium White Metal	ppm	*Visual	NONE	<1 NONE	<1 NONE	
		scalar					
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	5	
	Potassium	ppm	ASTM D5185m	>20	4	2	
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	9.8	7.0	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	17.5	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
ELUID CONDITION	O a alla ana		AOTM DEADE		•		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	2 7	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m ASTM D5185m		3 0	0	
	Barium Molybdenum	ppm	ASTM D5185m		117	103	
	•	ppm	ASTM D5185m			<1	
	Manganese Magnesium	ppm ppm	ASTM D5185m		<1 22	19	
	Calcium	ppm	ASTM D5185m		4469	4332	
	Phosphorus	ppm	ASTM D5185m		894	907	
	Zinc	ppm	ASTM D5185m		1105	1097	
	Sulfur	ppm	ASTM D5185m		4933	5424	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	11.1	
	Base Number (BN)			0	14.35	15.23	
	Visc @ 100°C	cSt	ASTM D445		15.6	15.8	







Certificate L2367

Laboratory Sample No.

: TR05957160 Lab Number : 05957160 Unique Number: 10658373 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Sep 2023 : 25 Sep 2023 **Tested**

: 25 Sep 2023 - Wes Davis Diagnosed

SPRAGUE RANCH

6907 ROUTE 14 BROOKFIELD, VT US 05036

Contact: SCOTT BURRELL

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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