



**OIL ANALYSIS REPORT** 

WEAR CONTAMINATION FLUID CONDITION

ABNORMAL NORMAL ATTENTION



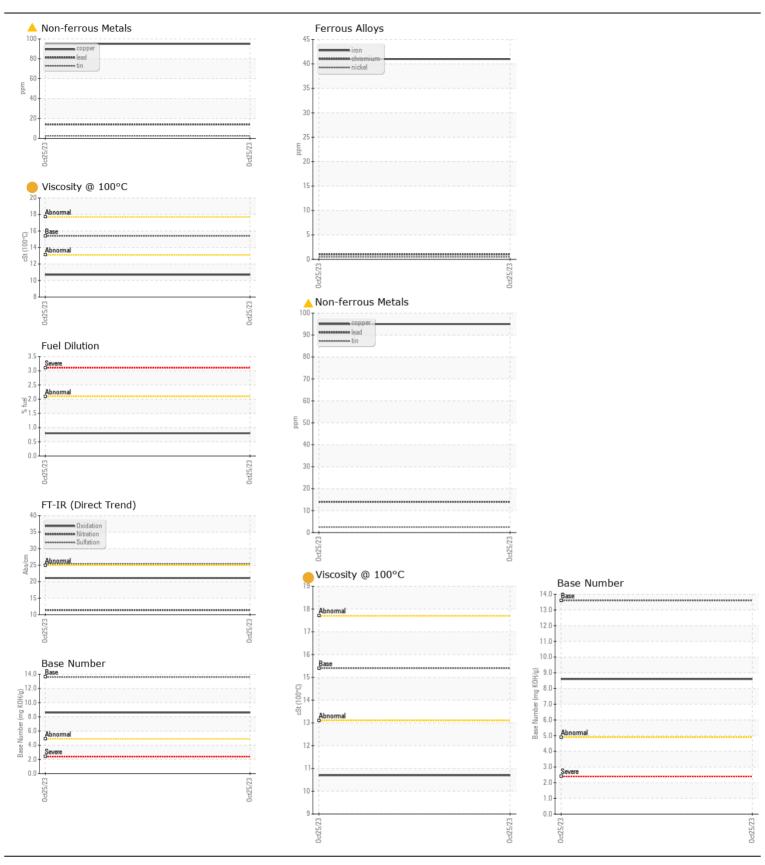
**Store 5 - Cross Lanes** 

## JOHN DEERE 550K 1T0550KKCPF436233

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (4 GAL)

(,							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next	Sample Number		Client Info		LEC0043198		
	Sample Date		Client Info		25 Oct 2023		
	Machine Age	hrs	Client Info		357		
service interval to monitor.	Oil Age	hrs	Client Info		357		
	Filter Age	hrs	Client Info		357		
	Oil Changed	1110	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status		Olletti IIIIO		ABNORMAL		
					ADNONWAL		
WEAR  The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in	Iron	ppm	ASTM D5185m	>51	41		
	Chromium	ppm	ASTM D5185m	>11	1		
	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	<b>~</b> 3	0		
in.	Aluminum	ppm	ASTM D5185m		10		
	Lead	ppm	ASTM D5185m		14		
	Copper		ASTM D5185m		<u> </u>		
	Tin	ppm	ASTM D5185m		2		
	Vanadium	ppm	ASTM D5185m	>4			
	White Metal	ppm scalar		NONE	<1 NONE		
			*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>120	11		
CONTAMINATION	Potassium	ppm	ASTM D5185m		3		
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>2.1	0.8		
	Water	/0	WC Method		NEG		
	Glycol		WC Method	<i>&gt;</i> 0.∠1	NEG		
	Soot %	%	*ASTM D7844	. 2	0.4		
	Nitration	Abs/cm	*ASTM D7624	>20	11.4		
	Sulfation		*ASTM D7624		25.3		
	Silt	Abs/.1mm	*Visual	NONE	25.3 NONE		
	Debris	scalar			NONE		
		scalar	*Visual	NONE			
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance Odor	scalar	*Visual	NORML	NORML		
		scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.21	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	7		
TEGIB GONDITION	Boron	ppm	ASTM D5185m		123		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		5		
	Molybdenum	ppm	ASTM D5185m		259		
	Manganese	ppm	ASTM D5185m		6		
	Magnesium	ppm	ASTM D5185m		833		
	Calcium	ppm	ASTM D5185m		1394		
	Phosphorus	ppm	ASTM D5185m		858		
	Zinc		ASTM D5185m		1042		
	Sulfur	ppm	ASTM D5185m				
		ppm Abo/ 1mm		- 2F	2640		
	Oxidation	Abs/.1mm	*ASTM D7414		21.1		
	Base Number (BN)		ASTM D2896		8.6		
	Visc @ 100°C	cSt	ASTM D445	15.4	10.7		





Report Id: LESMAROH [WUSCAR] 05991507 (Generated: 05/03/2024 14:15:27) Rev: 1

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0043198 Lab Number : 05991507

Unique Number: 10714169

Received **Tested** Diagnosed

Test Package: CONST (Additional Tests: FuelDilution, PercentFuel, TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

: 27 Oct 2023

: 31 Oct 2023

: 31 Oct 2023 - Don Baldridge

\* - 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)

LESLIE EQUIPMENT COMPANY

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