



**WEAR CONTAMINATION FLUID CONDITION**  **ABNORMAL NORMAL ATTENTION** 

## Store 4 - Fairmont [144296]

## **JOHN DEERE 250G 1FF250GXTNF612002**

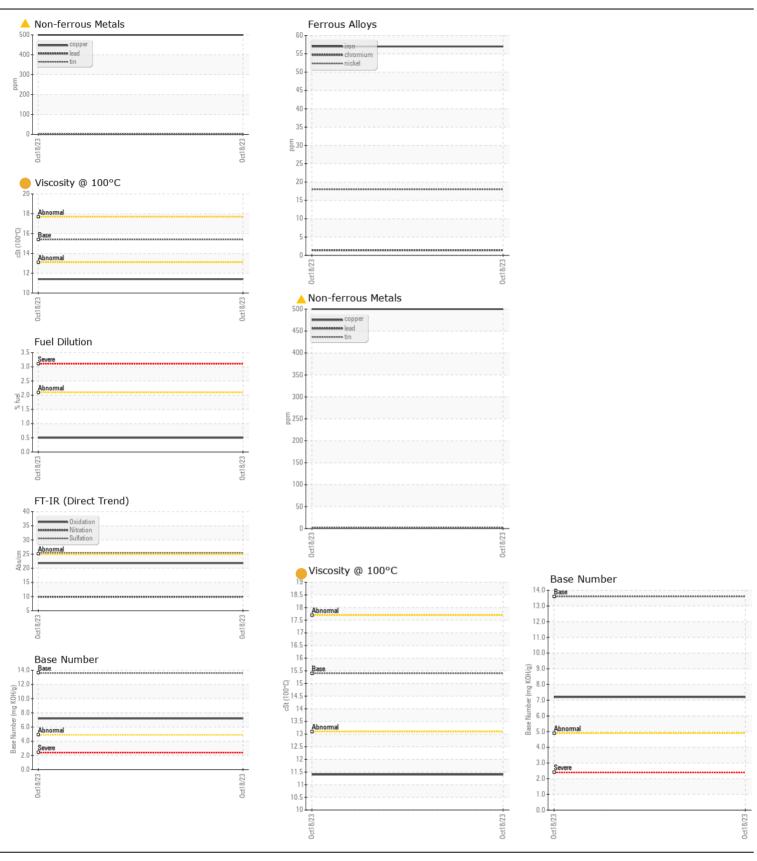
Diesel Engine

JOHN DEERE ENGINE OIL PLU	JS 50 II 15W	40 (5	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 service interval to monitor.	Sample Number		Client Info	2.1111071011	LEC0044251		
	Sample Date		Client Info		18 Oct 2023		
	Machine Age	hrs	Client Info		665		
	Oil Age	hrs	Client Info		665		
	Filter Age	hrs	Client Info		665		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAD	lus a		AOTM DEADE				
WEAR  The copper level is abnormal. Elemental level of copper (Cu) probably due to leaching of copper from copper components (i.e. cooling core) by the oil additives. All other metal levels are typical for a new component breaking in.	Iron	ppm	ASTM D5185m		57		
	Chromium	ppm	ASTM D5185m		1		
	Nickel	ppm	ASTM D5185m	>5	18		
	Titanium	ppm	ASTM D5185m	0	0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		8		
	Lead	ppm	ASTM D5185m	>26	1		
	Copper	ppm	ASTM D5185m		<u>^</u> 500		
	Tin	ppm	ASTM D5185m	>4	2		
	Vanadium	ppm	ASTM D5185m	NONE	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>120	15		
CONTAMINATION	Potassium	ppm	ASTM D5185m		7		
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524		0.5		
	Water	/0	WC Method		NEG		
	Glycol	%	*ASTM D2982	7 U.L.	NEG		
	Soot %	%	*ASTM D7844	>3	0.6		
	Nitration	Abs/cm	*ASTM D7624	>20	9.9		
	Sulfation	Abs/.1mm	*ASTM D7415		25.4		
	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		
	<b>Emulsified Water</b>	scalar	*Visual	>0.21	NEG		
FLUID CONDITION	Sodium	nnm	ACTM DE10Em	. 01	5		
FLUID CONDITION	Boron	ppm	ASTM D5185m ASTM D5185m	>31	146		
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					
	Molybdenum	ppm	ASTM D5185m ASTM D5185m		2 251		
	Manganese	ppm	ASTM D5185m		5		
	Magnesium	ppm	ASTM D5185m		739		
	Calcium	ppm	ASTM D5185m		739 1675		
	Phosphorus	ppm	ASTM D5185m		957		
	Zinc	ppm	ASTM D5185m		957 1175		
	Sulfur	ppm	ASTM D5185m				
	Oxidation	ppm Abs/.1mm	*ASTM D5185m	- OF	3087		
					21.8		
	Base Number (BN)	ilig KUH/g	ASTIVI D2896	13.6	7.2		

ASTM D445 15.4

11.4

Visc @ 100°C cSt







Certificate L2367

Laboratory Sample No.

Lab Number : 05986281

: LEC0044251

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

**Tested** Unique Number : 10708943 Diagnosed

: 25 Oct 2023

: 25 Oct 2023 - Don Baldridge Test Package : CONST ( Additional Tests: FuelDilution, Glycol, PercentFuel, TBN )

: 23 Oct 2023

LESLIE EQUIPMENT COMPANY 105 TENNIS CENTER DR. MARIETTA, OH US 45750-9765

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To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - 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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