



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

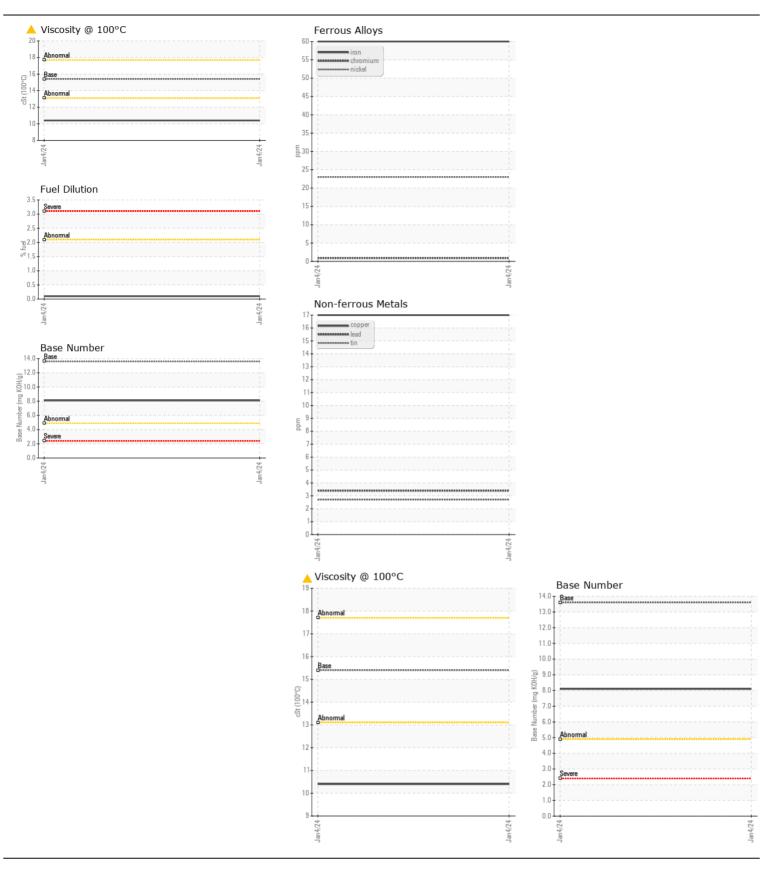
**NORMAL NORMAL ABNORMAL** 

**Store 3 - Norton** 

## JOHN DEERE 850L D18 (S/N F446525)

Diesel Engine

DECOMMEND ATION	<b>-</b> .	11011		11 1,141	( <u> </u>	100	10.
RECOMMENDATION  Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LEC0047682		
	Sample Date		Client Info		04 Jan 2024		
	Machine Age	hrs	Client Info		521		
	Oil Age	hrs	Client Info		521		
	Filter Age	hrs	Client Info		521		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	nnm	ASTM D5185m	. 51	60		
WEAR		ppm			60		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m	>5	23		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		6		
	Lead	ppm		>26	3		
	Copper	ppm	ASTM D5185m		17		
	Tin	ppm	ASTM D5185m	>4	3		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>120	11		
	Potassium	ppm	ASTM D5185m		8		
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524		0.1		
	Water	, ,	WC Method		NEG		
	Glycol		WC Method	, 0.2.	NEG		
	Soot %	%	*ASTM D7844	>3	0.4		
	Nitration	Abs/cm	*ASTM D7624	>20	9.0		
	Sulfation	Abs/.1mm	*ASTM D7415		21.8		
	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		*Visual	>0.21	NEG		
<u></u>	Linuisined Water		Visuai	70.21			
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	9		
	Boron	ppm	ASTM D5185m		168		
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		<1		
	Molybdenum	ppm	ASTM D5185m		229		
	Manganese	ppm	ASTM D5185m		3		
	Magnesium	ppm	ASTM D5185m		758		
	Calcium	ppm	ASTM D5185m		1421		
	Phosphorus	ppm	ASTM D5185m		950		
	Zinc	ppm	ASTM D5185m		1093		
	Sulfur	ppm	ASTM D5185m		2943		
	Oxidation	Abs/.1mm	*ASTM D3163111	<b>&gt;25</b>	16.9		
	Oxidation						
	Base Number (BN)	mg KOH/g	<b>ASTM D2896</b>	126	8.1		







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: LEC0047682 : 06063310 : 10834692

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 17 Jan 2024 Diagnosed

: 24 Jan 2024 Diagnostician : Angela Borella Test Package : CONST ( Additional Tests: FuelDilution, PercentFuel, TBN )

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) LANE PIPELINE 2946 E MAIN ST

BRIDGEPORT, WV US 26330 Contact: JESSE WILBURN

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