WEAR
CONTAMINATION
FLUID CONDITION

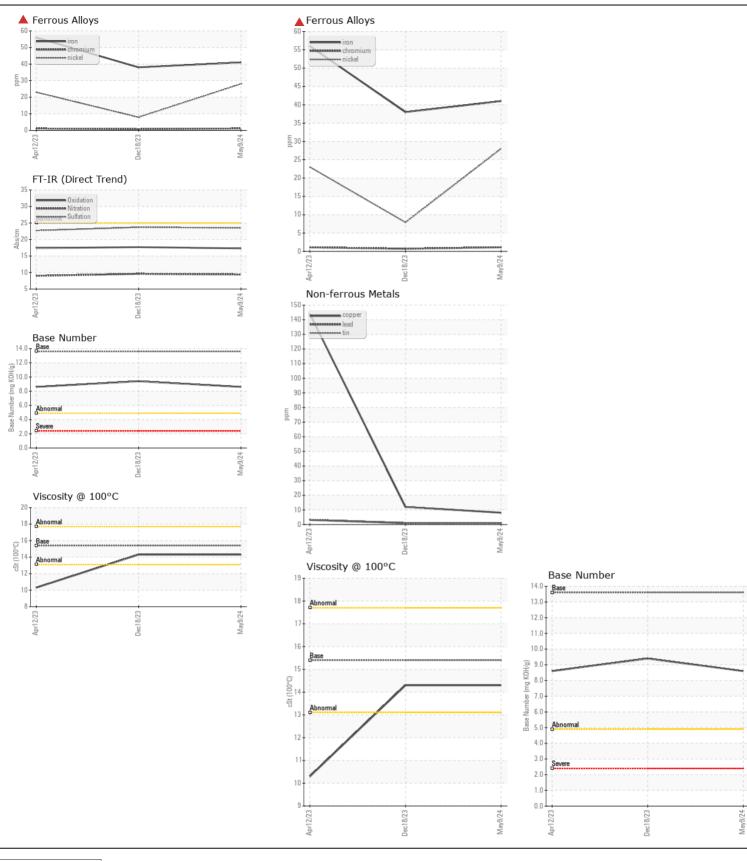
SEVERE NORMAL NORMAL

Machine Id

## **JOHN DEERE 850L 1T0850LXPNF429766**

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WE0006859	WE0006535	WE0004324
Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.	Sample Date		Client Info		09 May 2024	18 Dec 2023	12 Apr 2020
	Machine Age	hrs	Client Info		2021	1747	485
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				SEVERE	ABNORMAL	ABNORMAI
WEAR	Iron	ppm	ASTM D5185m	>51	41	38	56
	Chromium	ppm	ASTM D5185m		1	<1	1
Valve wear is indicated.	Nickel	ppm	ASTM D5185m		<u>▲</u> 28	<u> </u>	<u>^</u> 23
	Titanium	ppm	ASTM D5185m		_ <1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		9	6	2
	Lead	ppm	ASTM D5185m		1	<1	3
	Copper	ppm	ASTM D5185m		8	12	<u> </u>
	Tin	ppm	ASTM D5185m	>4	1	1	3
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<b>-</b> 22	14	11	9
CONTAMINATION	Potassium	ppm	ASTM D5185m		4	2	9
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	0.2
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	ZU.L1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	<b>\3</b>	0.7	0.6	0.4
	Nitration	Abs/cm	*ASTM D7624		9.4	9.6	9.0
	Sulfation	Abs/.1mm	*ASTM D7415		23.5	23.7	22.7
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	<b>Emulsified Water</b>	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	nnm	ASTM D5185m	<b>- 21</b>	2	2	3
FLUID CONDITION	Boron	ppm	ASTM D5185m	>01	168	185	159
The BN result indicates that there is suitable alkalinity remaining in the	Barium		ASTM D5185m		1	0	0
oil.	Molybdenum	ppm	ASTM D5185m		278	275	262
	Manganese	ppm	ASTM D5185m		<1	<1	2
	Magnesium	ppm	ASTM D5185m		853	850	809
	Calcium	ppm	ASTM D5185m		1421	1434	1527
	Phosphorus	ppm	ASTM D5185m		938	885	882
	Zinc	ppm	ASTM D5185m		1149	1116	1118
	Sulfur	ppm	ASTM D5185m		3169	2875	3072
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	17.7	17.4
	Base Number (BN)		ASTM D2896		8.6	9.4	8.6
	Visc @ 100°C	cSt	ASTM D445		14.3	14.3	10.3







Laboratory Sample No.

: WE0006859 Lab Number : 06178496 Unique Number : 11029822

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

: 14 May 2024 : 15 May 2024 Diagnosed

: 16 May 2024 - Sean Felton

WARRIOR TRACTOR AND EQUIPMENT - NORTHPORT P.O. BOX 412 NORTHPORT, AL

US 35476 Contact: CRAIG ANDOE

serve01@warriortractor.com T: (205)339-0300

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

Test Package : CONST ( Additional Tests: TBN )

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