WEAR CONTAMINATION FLUID CONDITION

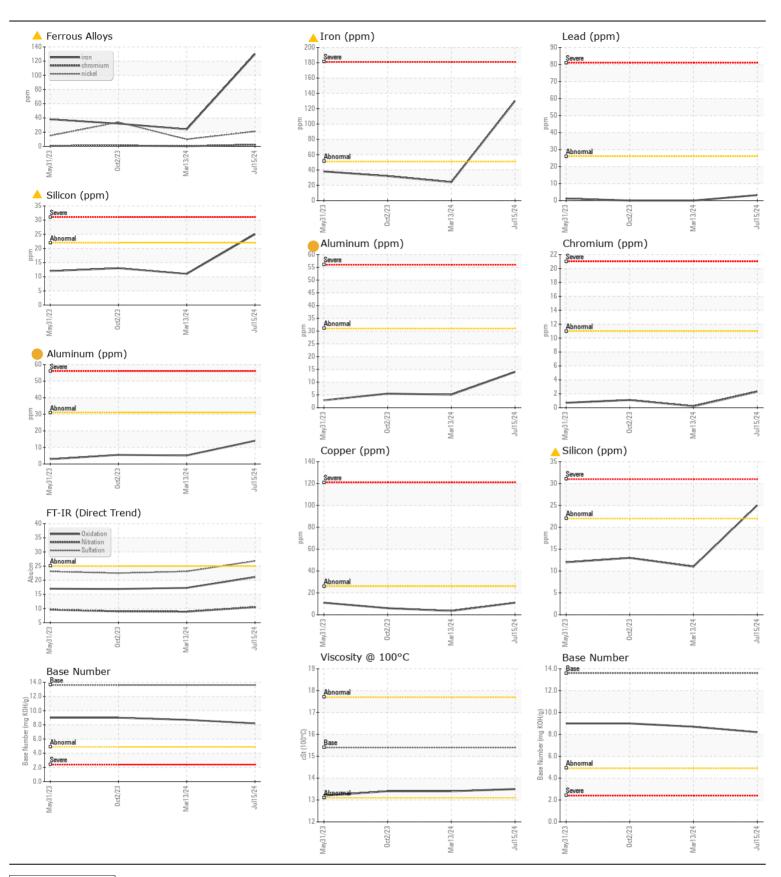
ABNORMAL ABNORMAL NORMAL

[W9181]

## JOHN DEERE 850L 1T0850LXCNF421261

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: W9181 )	Sample Number		Client Info		JR0224089	JR0209633	JR018330
	Sample Date		Client Info		15 Jul 2024	13 Mar 2024	02 Oct 202
	Machine Age	hrs	Client Info		3530	3032	1988
	Oil Age	hrs	Client Info		498	1044	466
	Filter Age	hrs	Client Info		498	0	466
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	_
VEAR	Iron	ppm	ASTM D5185m	<u></u>	<u> </u>	24	32
WLAII	Chromium	ppm	ASTM D5185m		2	<1	1
Valve wear is indicated. Cylinder, crank, or cam shaft wear is indicated.	Nickel		ASTM D5185m		<u>2</u> 21	▲ 10	<u>^</u> 34
	Titanium	ppm	ASTM D5185m	/5	1	0	0
	Silver	ppm	ASTM D5185m	~3	0	0	0
	Aluminum	ppm	ASTM D5185m		<u> </u>	5	6
	Lead	ppm	ASTM D5185m		3	0	0
	Copper	ppm	ASTM D5185m		11	4	6
	Tin	ppm	ASTM D5185m		2	- <1	0
	Vanadium	ppm	ASTM D5185m		- <1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONI
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONI
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	<u>^</u> 25	11	13
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Potassium Fuel	ppm	ASTM D5185m WC Method		3	0 <1.0	<1.0
	Water		WC Method		<1.0 NEG	NEG	NEG
	Glycol		WC Method	<i>&gt;</i> 0.∠1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	~3	1	0.5	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	10.5	8.9	9.0
	Sulfation	Abs/.1mm	*ASTM D7415		26.8	23.1	22.5
	Silt	scalar	*Visual	NONE	NONE	NONE	NONI
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONI
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	<b>Emulsified Water</b>	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	nnm	ASTM D5185m	. 01	4	2	4
FLUID CONDITION		ppm	ASTM D5185m	>31	4 47	189	184
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron Barium	ppm	ASTM D5185m		2	0	0
	Molybdenum	ppm	ASTM D5185m		280	252	255
	Manganese	ppm	ASTM D5185m		2	<1	<1
	Magnesium	ppm	ASTM D5185m		878	798	900
	Calcium	ppm	ASTM D5185m		1539	1412	1483
	Phosphorus	ppm	ASTM D5185m		964	908	928
	Zinc	ppm	ASTM D5185m		1193	1068	1165
	Sulfur	ppm	ASTM D5185m		3018	2951	3040
	Oxidation	Abs/.1mm	*ASTM D7414	>25	21.1	17.3	16.9
	Oxidation						
	Base Number (BN)				8.2	8.7	9.0





Certificate L2367

Report Id: RWMFAY [WUSCAR] 06239010 (Generated: 07/19/2024 12:05:28) Rev: 1

Laboratory Sample No. Unique Number : 11127844

Lab Number : 06239010

: JR0224089

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

**Tested** Diagnosed Test Package: MOBCE (Additional Tests: TBN)

: 17 Jul 2024 : 18 Jul 2024 : 19 Jul 2024 - Sean Felton

JRE - HOPE MILLS/FAYETTEVILLE 5039 HWY 301 SOUTH

HOPE MILLS, NC US 28348

Contact: FAYETTEVILLE SHOP stephen.mullis@jamesriverequipment.com;canastasio@wearcheck.com T:

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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