WEAR CONTAMINATION FLUID CONDITION

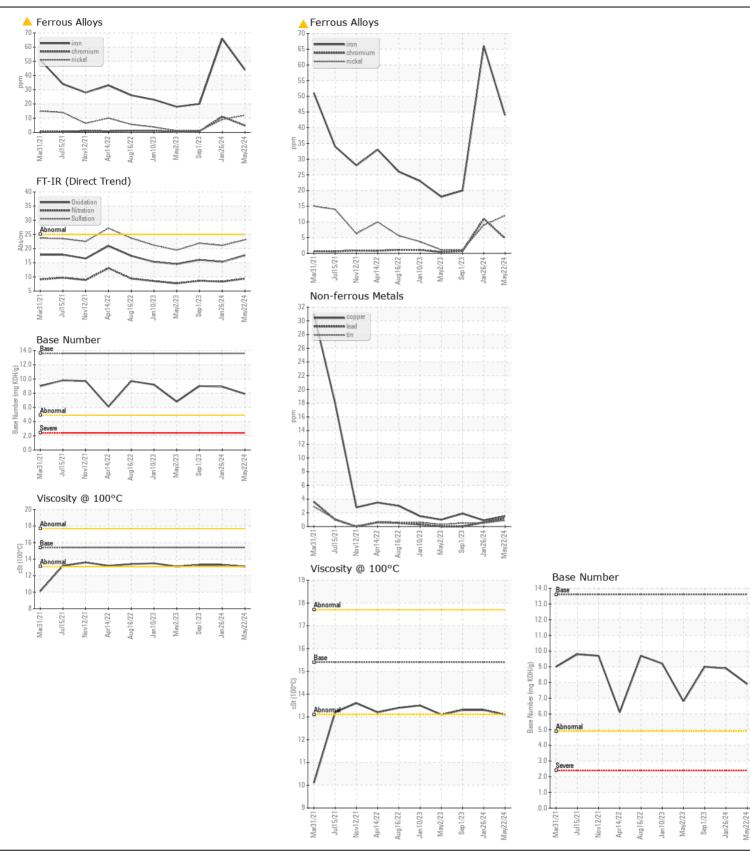
ABNORMAL NORMAL NORMAL

Machine Id

## **JOHN DEERE 850L 1T0850LXCMF392469**

Diesel Engine

PECOMMENDATION  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.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0211472	JR0199789	JR0180202
	Sample Date		Client Info		22 May 2024	26 Jan 2024	01 Sep 2023
	Machine Age	hrs	Client Info		4965	4466	3961
	Oil Age	hrs	Client Info		0	0	502
	Filter Age	hrs	Client Info		0	0	502
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	44	66	20
Valve wear is indicated. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	5	11	<1
	Nickel	ppm	ASTM D5185m	>5	<b>1</b> 2	9	1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	8	7	4
	Lead	ppm	ASTM D5185m	>26	1	<1	0
	Copper	ppm	ASTM D5185m	>26	2	<1	2
	Tin	ppm	ASTM D5185m	>4	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	8	8	8
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	2	<1
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.4	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	9.4	8.3	8.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.1	21.1	21.9
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	2	3
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		231	264	224
	Barium	ppm	ASTM D5185m		0	<1	0
	Molybdenum	ppm	ASTM D5185m		248	218	266
	Manganese	ppm	ASTM D5185m		1	2	<1
	Magnesium	ppm	ASTM D5185m		871	720	889
	Calcium	ppm	ASTM D5185m		1485	1510	1544
	Phosphorus	ppm	ASTM D5185m		900	941	941
	Zinc	ppm	ASTM D5185m		1130	1108	1173
	Sulfur	ppm	ASTM D5185m		3565	3087	3882
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.6	15.3	16.0







Certificate L2367

Report Id: JAMASH [WUSCAR] 06188964 (Generated: 05/28/2024 16:08:12) Rev: 1

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0211472 Lab Number : 06188964

Unique Number : 11045716

Received **Tested** Diagnosed Test Package : CONST ( Additional Tests: TBN )

: 23 May 2024 : 24 May 2024

: 28 May 2024 - Don Baldridge

11047 LEADBETTER RD ASHLAND, VA US 23005 Contact: DAVID ZIEG

dzieg@jamesriverequipment.com

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. T: (804)798-6001 F: (804)798-0292 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

JRE - ASHLAND