

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

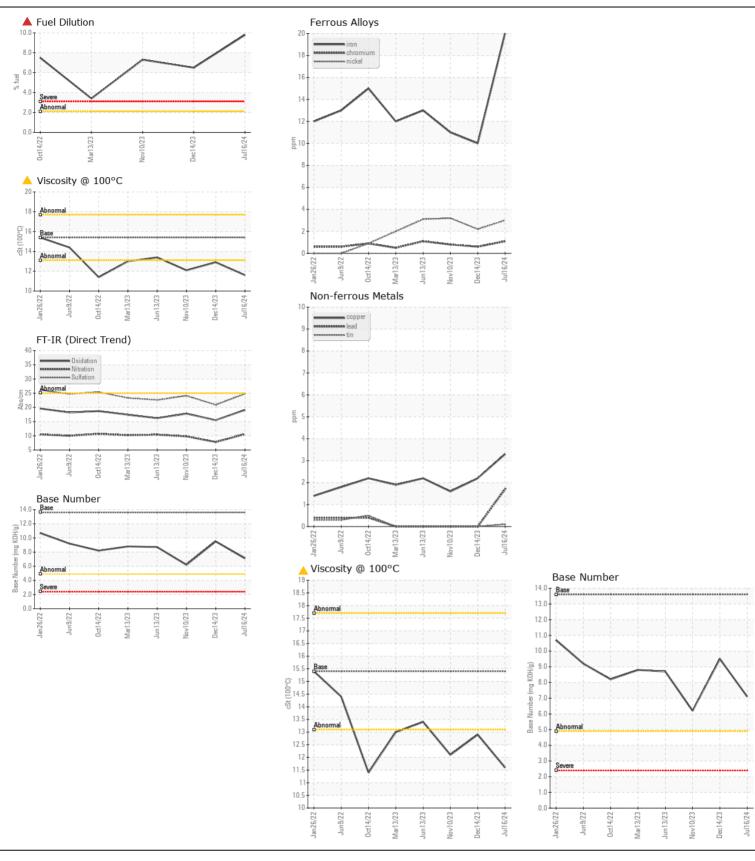
**NORMAL SEVERE ABNORMAL** 

[A35870]

## **JOHN DEERE 748L 1DW748LBCKF696416**

Diesel Engine

S	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	JOIVI	Client Info	EITHU/AU/I	WE0007615		WE0005511
We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. ( Customer Sample Comment: A35870 )	Sample Date		Client Info		16 Jul 2024	14 Dec 2023	10 Nov 2023
	Machine Age	hrs	Client Info		6899	6287	6160
	Oil Age	hrs	Client Info		500	100	500
	Filter Age	hrs	Client Info		500	100	500
	Oil Changed		Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		Changed	Not Changd	Changed
	Sample Status				SEVERE	SEVERE	SEVERE
WEAR	Iron	ppm	ASTM D5185m	<u></u>	20	10	11
VLAIT	Chromium	ppm	ASTM D5185m		1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		3	2	3
	Titanium	ppm	ASTM D5185m	/5	<1	<1	<1
	Silver	ppm	ASTM D5185m	<b>\3</b>	0	0	<1
	Aluminum	ppm	ASTM D5185m		5	4	5
	Lead	ppm	ASTM D5185m		2	0	0
	Copper	ppm	ASTM D5185m	-	3	2	2
	Tin	ppm	ASTM D5185m		<1	0	0
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	10	10	10
	Potassium	ppm	ASTM D5185m		4	3	2
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Fuel	%	ASTM D3524	>2.1	<b>▲</b> 9.8	<b>▲</b> 6.5	<b>▲</b> 7.3
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.2	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	10.6	7.8	9.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.8	20.9	24.1
	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	NORM
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	3	0	3
Fuel is present in the oil and is lowering the viscosity. The oil is no	Boron	ppm	ASTM D5185m		39	292	77
	Barium	ppm	ASTM D5185m		<1	0	0
,	NA - It do al a second	ppm	ASTM D5185m		228	254	237
longer serviceable due to the presence of contaminants.	Molybdenum					<1	<1
,	Manganese	ppm	ASTM D5185m		1		
,	Manganese Magnesium	ppm	ASTM D5185m		731	786	791
,	Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m		731 1280	786 1297	791 1268
,	Manganese Magnesium Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		731 1280 750	786 1297 821	791 1268 889
,	Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		731 1280 750 869	786 1297 821 997	791 1268 889 1052
,	Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		731 1280 750 869 2826	786 1297 821 997 3210	791 1268 889 1052 3033
,	Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7414		731 1280 750 869	786 1297 821 997	791 1268 889 1052







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06239934

: WE0007615

**Tested** Unique Number: 11128768

Received : 18 Jul 2024 : 19 Jul 2024 Diagnosed

: 19 Jul 2024 - Don Baldridge Test Package : CONST ( Additional Tests: PercentFuel, TBN )

WARRIOR TRACTOR AND EQUIPMENT - HUNTSVILLE 25135 ONE AVIATION WAY SW MADISON, AL

US 35756 Contact: HERBERT STONE

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

WTE013@WARRIORTRACTOR.COM T:

\* - 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)

Report Id: WARMAD [WUSCAR] 06239934 (Generated: 07/21/2024 11:24:00) Rev: 1

Submitted By: BOBBY LUCKY

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