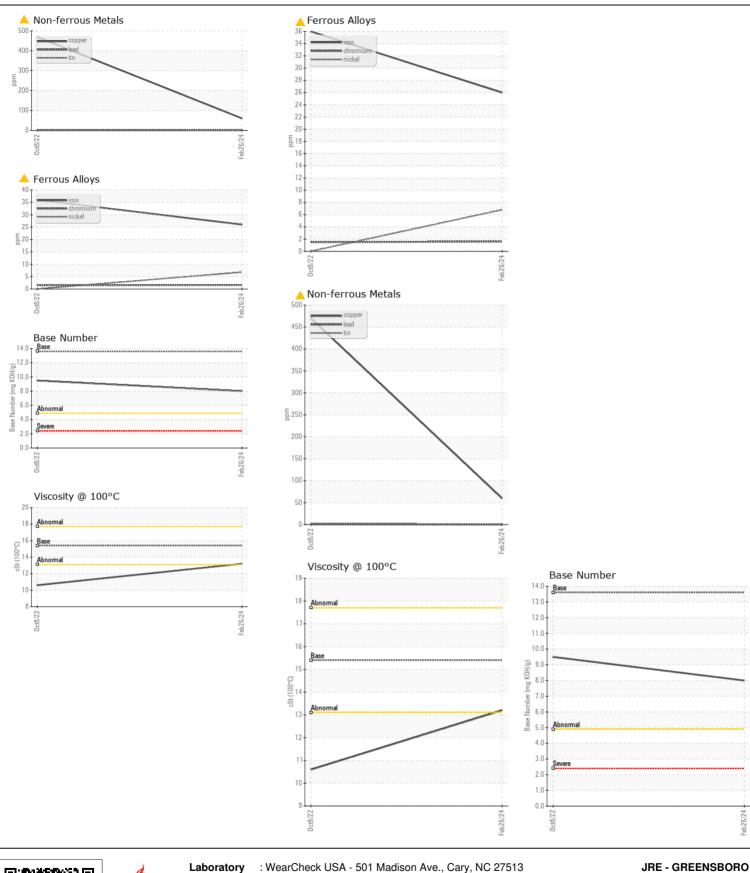
WEAR CONTAMINATION FLUID CONDITION **ABNORMAL NORMAL NORMAL**

JOHN DEERE 748L-II 1DW748LBVNF714029

Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0205155	JR0148802	-
	Sample Date		Client Info		26 Feb 2024	08 Oct 2022	
	Machine Age	hrs	Client Info		1569	809	
	Oil Age	hrs	Client Info		0	809	
	Filter Age	hrs	Client Info		0	809	
	Oil Changed		Client Info		N/A	Changed	
	Filter Changed		Client Info		N/A	Changed	
	Sample Status				ABNORMAL	ABNORMAL	
/EAR	Iron	ppm	ASTM D5185m	>51	26	36	
The copper level is abnormal. Exhaust valve wear is indicated. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core).	Chromium	ppm	ASTM D5185m		2	2	
	Nickel	ppm	ASTM D5185m		_ 7	0	
	Titanium	ppm	ASTM D5185m		 <1	<1	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m		6	6	
	Lead	ppm	ASTM D5185m		0	<1	
	Copper	ppm	ASTM D5185m		<u>^</u> 60	470	
	Tin	ppm	ASTM D5185m		1	2	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
ONTAMINATION	Silicon	ppm	ASTM D5185m		11	10	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	12	16	
	Fuel		WC Method	>2.1	<1.0	0.5	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.6	0.7	
	Nitration	Abs/cm	*ASTM D7624	>20	9.6	10.1	
	Sulfation	Abs/.1mm	*ASTM D7415		23.6	24.3	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	2	
	Boron	ppm	ASTM D5185m		128	116	
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.	Barium	ppm	ASTM D5185m		2	5	
	Molybdenum	ppm	ASTM D5185m		238	255	
	Manganese	ppm	ASTM D5185m		2	5	
	Magnesium	ppm	ASTM D5185m		724	710	
	Calcium	ppm	ASTM D5185m		1301	1546	
	Phosphorus	ppm	ASTM D5185m		841	882	
	Zinc	ppm	ASTM D5185m		971	1056	
	Sulfur	ppm	ASTM D5185m		2702	3339	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	18.4	
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.0	9.5	
	Visc @ 100°C	cSt	ASTM D445		13.2	10.6	







Report Id: JAMGRE [WUSCAR] 06102291 (Generated: 02/29/2024 16:57:24) Rev: 1

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0205155 Lab Number : 06102291

Unique Number : 10900521

Test Package : CONST (Additional Tests: TBN)

Received : 27 Feb 2024 : 28 Feb 2024 **Tested** Diagnosed

: 29 Feb 2024 - Sean Felton

411 SOUTH REGIONAL ROAD GREENSBORO, NC US 27409

Contact: NICK GALLAHER NGALLAHER@JRENET.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: (336)668-2762 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (336)665-9556