WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL NORMAL ATTENTION**

JOHN DEERE 748L 1DW748LBHPL717148

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0199707		
	Sample Date		Client Info		23 Feb 2024		
	Machine Age	hrs	Client Info		585		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
VE A B							
WEAR	Iron	ppm	ASTM D5185m		32		
The copper level is abnormal. All other metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		2		
	Nickel	ppm	ASTM D5185m	>5	4		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		5		
	Lead	ppm	ASTM D5185m	>26	1		
	Copper	ppm	ASTM D5185m		<u>^</u> 78		
	Tin	ppm	ASTM D5185m	>4	2		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	14		
First content or elicible. There is no indication of any content or in	Potassium	ppm	ASTM D5185m	>20	7		
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>2.1	0.4		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.5		
	Nitration	Abs/cm	*ASTM D7624	>20	9.1		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.9		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.21	NEG		
LUID CONDITION	Sodium	nnm	ASTM D5185m	. 01	7		
LOID CONDITION	Boron	ppm	ASTM D5185m	>01	105		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		4		
	Molybdenum	ppm	ASTM D5185m		243		
	•	ppm					
	Manganese	ppm	ASTM D5185m ASTM D5185m		6		
	Magnesium	ppm			830 1206		
	Calcium	ppm	ASTM D5185m		1296		
	Phosphorus	ppm	ASTM D5185m		896		
	Zinc	ppm	ASTM D5185m		1091		
	Sulfur	ppm Abs/dame	ASTM D5185m	05	3113		
	Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896		17.4 7.7		

Contact/Location: DAVID ZIEG - JAMASH





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06101456

: JR0199707

Received **Tested** Unique Number : 10899686 Diagnosed

: 04 Mar 2024 : 04 Mar 2024 - Jonathan Hester Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

: 27 Feb 2024

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

Contact: DAVID ZIEG dzieg@jamesriverequipment.com T: (804)798-6001

* - 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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Contact/Location: DAVID ZIEG - JAMASH

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