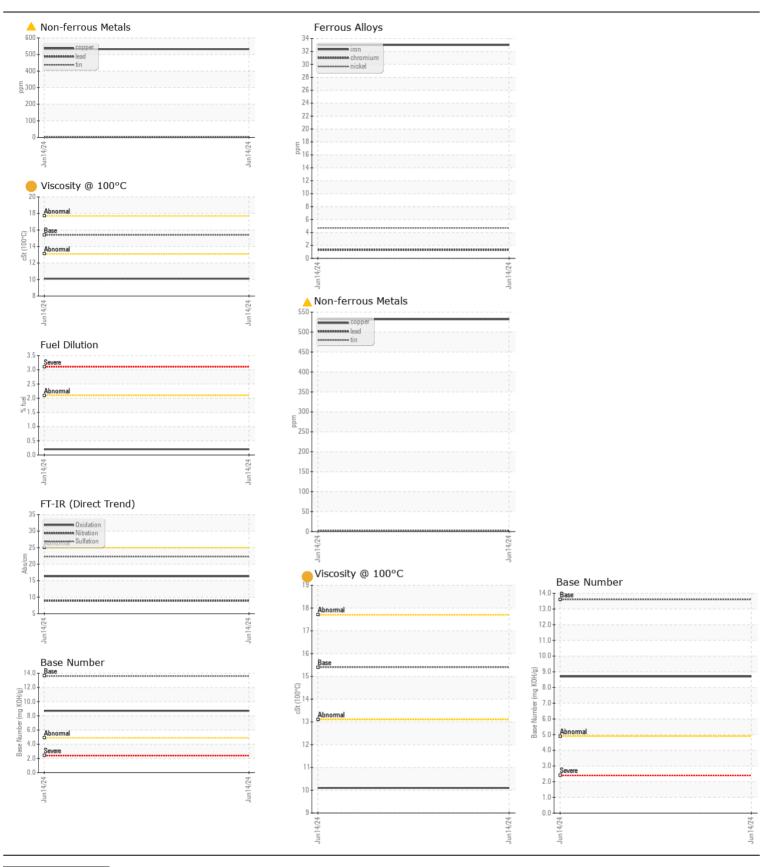
WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL NORMAL ATTENTION**

Machine Id

JOHN DEERE 748L 1DW748LBHPL718607

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (·						
RECOMMENDATION 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		JR0211634		
	Sample Date		Client Info		14 Jun 2024		
	Machine Age	hrs	Client Info		492		
	Oil Age	hrs	Client Info		492		
	Filter Age	hrs	Client Info		492		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.	Iron	ppm	ASTM D5185m	>51	33		
	Chromium	ppm	ASTM D5185m	>11	1		
	Nickel	ppm	ASTM D5185m	>5	5		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m	>31	4		
	Lead	ppm	ASTM D5185m	>26	2		
	Copper	ppm	ASTM D5185m	>26	△ 532		
	Tin	ppm	ASTM D5185m	>4	3		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	14		
	Potassium	ppm	ASTM D5185m		6		
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524		0.2		
	Water	, -	WC Method		NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.4		
	Nitration	Abs/cm	*ASTM D7624	>20	8.9		
	Sulfation	Abs/.1mm	*ASTM D7415		22.3		
	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		*Visual	>0.21	NEG		
		Scalai	visuai	70.21			
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Sodium	ppm	ASTM D5185m	>31	5		
	Boron	ppm	ASTM D5185m		183		
	Barium	ppm	ASTM D5185m		3		
	Molybdenum	ppm	ASTM D5185m		274		
	Manganese	ppm	ASTM D5185m		8		
	Magnesium	ppm	ASTM D5185m		812		
	Calcium	ppm	ASTM D5185m		1406		
	Phosphorus	ppm	ASTM D5185m		875		
	Zinc	ppm	ASTM D5185m		1088		
	Sulfur	ppm	ASTM D5185m		3082		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3		
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.7		





Certificate L2367

Laboratory Sample No.

Lab Number : 06213131

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0211634 Unique Number: 11085995

Received **Tested** Diagnosed

: 18 Jun 2024 : 20 Jun 2024

: 20 Jun 2024 - Don Baldridge Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

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

JRE - ASHLAND

11047 LEADBETTER RD