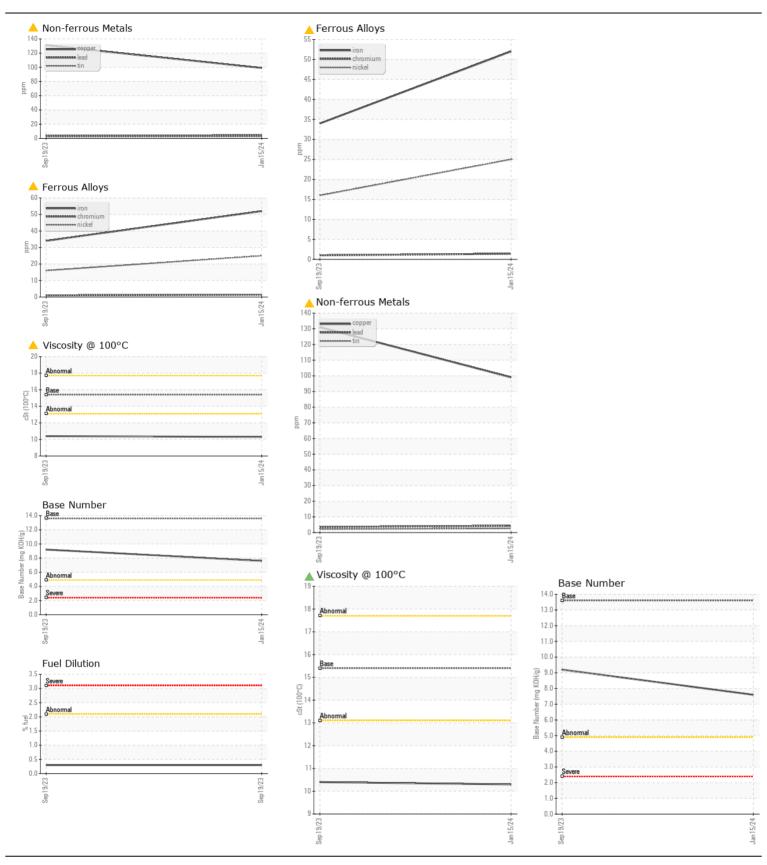
WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL NORMAL ATTENTION**

JOHN DEERE 744P 1DW744PACPLX06325

Diesel Engine JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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.	Sample Number		Client Info		JR0197368	JR0186391	
	Sample Date		Client Info		15 Jan 2024	19 Sep 2023	
	Machine Age	hrs	Client Info		1103	541	
	Oil Age	hrs	Client Info		562	541	
	Filter Age	hrs	Client Info		562	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR	Iron	nnm	ASTM D5185m	. E1	52	34	
The nickel level is abnormal. 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.	Chromium	ppm	ASTM D5185m		1	1	
	Nickel	ppm			 <u> </u>	 ▲ 16	
		ppm	ASTM D5185m	>0			
	Titanium	ppm	ASTM D5185m	0	<1	<1	
	Silver	ppm	ASTM D5185m		<1	1	
	Aluminum	ppm	ASTM D5185m		4	2	
	Lead	ppm	ASTM D5185m		4	4	
	Copper	ppm	ASTM D5185m		<u> </u>	<u> </u>	
	Tin	ppm	ASTM D5185m	>4	3	2	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	\22	9	9	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		5	8	
	Fuel	%	ASTM D3524		<1.0	0.3	
	Water	/0	WC Method		NEG	NEG	
	Glycol		WC Method	<i>></i> 0.∠1	NEG	NEG	
	Soot %	%	*ASTM D7844	. 2	0.5	0	
					9.4	9.0	
	Nitration	Abs/cm	*ASTM D7624 *ASTM D7415			24.6	
	Sulfation	Abs/.1mm			23.9		
	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	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	4	4	
LOID CONDITION	Boron	ppm	ASTM D5185m	701	84	183	
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		0	0	
	Molybdenum	ppm	ASTM D5185m		233	229	
	Manganese	ppm	ASTM D5185m		233	2	
	Magnesium		ASTM D5185m		840	818	
	Calcium	ppm	ASTM D5185m		1410	1434	
	Phosphorus	ppm	ASTM D5165III			856	
		ppm			766 1041		
	Zinc	ppm	ASTM D5185m		1041	1074	
	Sulfur	ppm Aha/1	ASTM D5185m	05	2769	3427	
	Oxidation	Abs/.1mm	*ASTM D7414		18.7	17.3	
	Base Number (BN)		ASTM D2896		7.6	9.2	
	Visc @ 100°C	cSt	ASTM D445	15.4	10.3	10.4	





Laboratory Sample No. Lab Number **Unique Number**

: 06062488 : 10833870

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0197368 Recieved : 17 Jan 2024 Diagnosed

: 18 Jan 2024 Diagnostician : Don Baldridge

Test Package: CONST (Additional Tests: FuelDilution, TBN)

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.

JRE - GARNER 4161 AUBURN CHURCH RD GARNER, NC

> US 27529 Contact: RALEIGH SHOP

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)