WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id

JOHN DEERE 524 P 1DW524PACNLZ15641

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (21 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn		History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0221108		
	Sample Date		Client Info		08 Jul 2024		
	Machine Age	hrs	Client Info		982		
	Oil Age	hrs	Client Info		400		
	Filter Age	hrs	Client Info		400		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>51	10		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1		
	Nickel	ppm	ASTM D5185m	>5	2		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>31	5		
	Lead	ppm	ASTM D5185m	>26	<1		
	Copper	ppm	ASTM D5185m		34		
	Tin	ppm	ASTM D5185m	>4	<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	7		
30117AIIII17A11314	Potassium	ppm	ASTM D5185m		3		
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524		<1.0		
	Water	, , ,	WC Method		NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	8.1		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1		
	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	ppm	ASTM D5185m	\31	3		
EGID GONDITION	Boron	ppm	ASTM D5185m	701	283		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		248		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		784		
	Calcium	ppm	ASTM D5185m		1349		
	Phosphorus	ppm	ASTM D5185m		858		
	Zinc	ppm	ASTM D5185m		1055		
	Sulfur	ppm	ASTM D5185m		2962		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5		
	Base Number (BN)				8.8		
	(/	0 - 0					







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0221108 Lab Number : 06232101

Unique Number : 11115594

Received **Tested**

: 10 Jul 2024 Diagnosed

: 11 Jul 2024 : 11 Jul 2024 - Don Baldridge

JRE - NEW BERN 3816 MARTIN LUTHER KING BLVD

NEW BERN, NC US 28562

Test Package : CONST (Additional Tests: FuelDilution, TBN) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: NEW BERN SHOP nick.etherdridge@jamesriverequipment.com;canastasio@wearcheckusa.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)

F: