

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



Area [W15354]

## **JOHN DEERE 624K 1DW624KZEDE651324**

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	OOW	Client Info	LIIIIUAUII	JR0196310		
	Sample Date		Client Info		07 Jan 2024		
	Machine Age	hrs	Client Info		18309		
	Oil Age	hrs	Client Info		1400		
	Filter Age	hrs	Client Info		1400		
	Oil Changed	1113	Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status		Client inio		ABNORMAL		
					ADNONWAL		
VEAR	Iron	ppm	ASTM D5185m	>51	46		
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 component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	1		
	Nickel	ppm	ASTM D5185m	>5	6		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m	>26	- <1		
	Copper	ppm	ASTM D5185m	>26	<u>^</u> 211		
	Tin	ppm	ASTM D5185m		2		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	8		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	6		
	Fuel	%	ASTM D3524	>2.1	0.2		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.6		
	Nitration	Abs/cm	*ASTM D7624	>20	9.7		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.2		
	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	<b>\31</b>	7		
LOID CONDITION	Boron	ppm	ASTM D5185m	701	94		
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		4		
	Molybdenum	ppm	ASTM D5185m		162		
	Manganese		ASTM D5185m		102		
	Magnesium	ppm	ASTM D5185m		715		
	Calcium	ppm	ASTM D5185m		1514		
	Phosphorus	ppm	ASTM D5185m		845		
	Zinc		ASTM D5185m		1046		
	Sulfur	ppm	ASTM D5185m		2849		
	Oxidation		*ASTM D7414	-25	2849 19.6		
	Base Number (BN)	Abs/.1mm mg KOH/g			8.4		
	DASE MUHICH (DIV)	IIIU NUT/U	MO 1 IVI D/2090	10.0	0.4		





Certificate L2367

Laboratory Sample No. Lab Number

**Unique Number** 

: JR0196310 : 06064065 : 10835447

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 18 Jan 2024 Diagnosed

: 24 Jan 2024 Diagnostician : Doug Bogart Test Package : CONST ( Additional Tests: FuelDilution, PercentFuel, TBN )

JRE - CASTLE HAYNE 113 CROWATAN ROAD CASTLE HAYNE, NC US 28429-5819 Contact: WILMINGTON SHOP

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

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\* - 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) T: (910)675-9211 F: