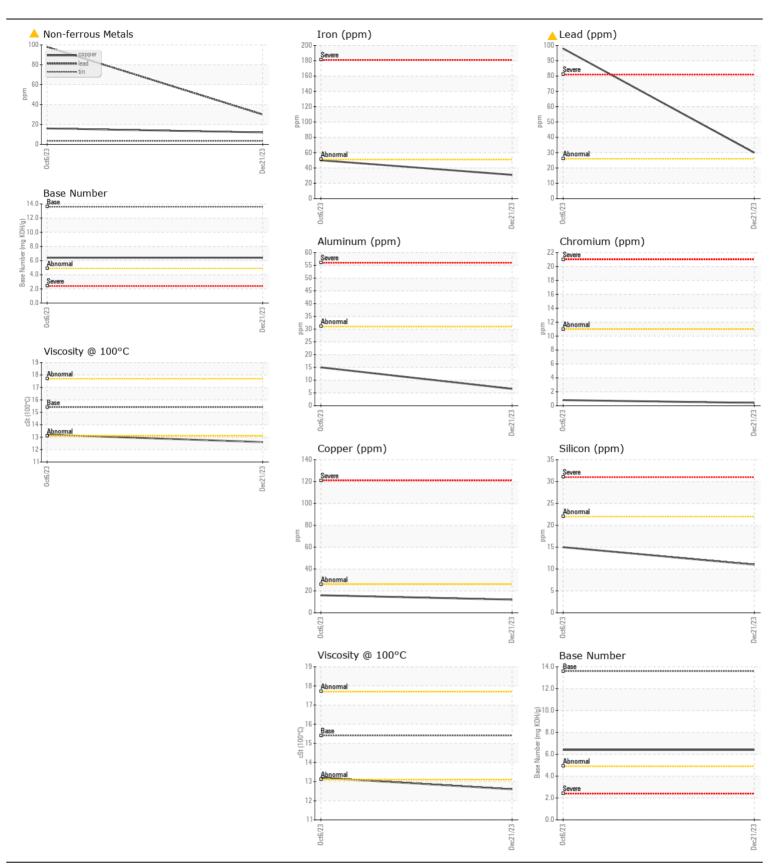
WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL NORMAL NORMAL**

[W8291]

JOHN DEERE 944K 1DW944KXLML703646

Component Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOOMMENDATION	Sample Number	OOW	Client Info	Little	JR0183112		
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. (Customer Sample Comment: W8291)	Sample Date		Client Info		21 Dec 2023	06 Oct 2023	
	Machine Age	hrs	Client Info		4059	3400	
	Oil Age	hrs	Client Info		500	3400	
	Filter Age	hrs	Client Info		500	0	
	Oil Changed		Client Info		Changed	N/A	
	Filter Changed		Client Info		Changed	N/A	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>51	31	50	
The lead level has decreased, but is still abnormal. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	
	Nickel	ppm	ASTM D5185m	>5	0	<1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>31	7	15	
	Lead	ppm	ASTM D5185m	>26	4 30	<u> </u>	
	Copper	ppm	ASTM D5185m	>26	12	16	
	Tin	ppm	ASTM D5185m	>4	3	3	
	Vanadium	ppm	ASTM D5185m		<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Ciliaan		ACTM DE10Em	. 00	44	15	
CONTAMINATION	Silicon Potassium	ppm	ASTM D5185m ASTM D5185m		11 4	15 9	
There is no indication of any contamination in the oil.	Fuel	ppm %	ASTM D3163111		<1.0	<1.0	
	Water	/0	WC Method		NEG	NEG	
	Glycol		WC Method	70.21	NEG	NEG	
	Soot %	%	*ASTM D7844	~3	0.7	0.7	
	Nitration	Abs/cm	*ASTM D7624	>20	11.1	11.4	
	Sulfation	Abs/.1mm	*ASTM D7415		26.3	26.0	
	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	6	9	
I LOID CONDITION	Boron	ppm	ASTM D5185m	701	22	8	
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		<1	2	
	Molybdenum	ppm	ASTM D5185m		219	140	
	Manganese	ppm	ASTM D5185m		1	2	
	Magnesium	ppm	ASTM D5185m		893	772	
	Calcium	ppm	ASTM D5185m		1418	1333	
	Phosphorus	ppm	ASTM D5185m		944	916	
	Zinc	ppm	ASTM D5185m		1133	1140	
	Sulfur	ppm	ASTM D5185m		3165	3088	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	21.2	21.7	
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	6.4	6.4	
	Visc @ 100°C	cSt	ASTM D445	15.4	12.6	13.2	





Certificate L2367

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

: JR0183112 : 06047651 : 10808259

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 29 Dec 2023 Diagnosed : 02 Jan 2024 Diagnostician : Don Baldridge

Test Package: MOBCE (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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) WAKE STONE CORP 6811 HWY 64 EAST

KNIGHTDALE, NC US 27545

Contact: PAUL SPRUILL paulspruill@wakestonecorp.com

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