WEAR CONTAMINATION FLUID CONDITION

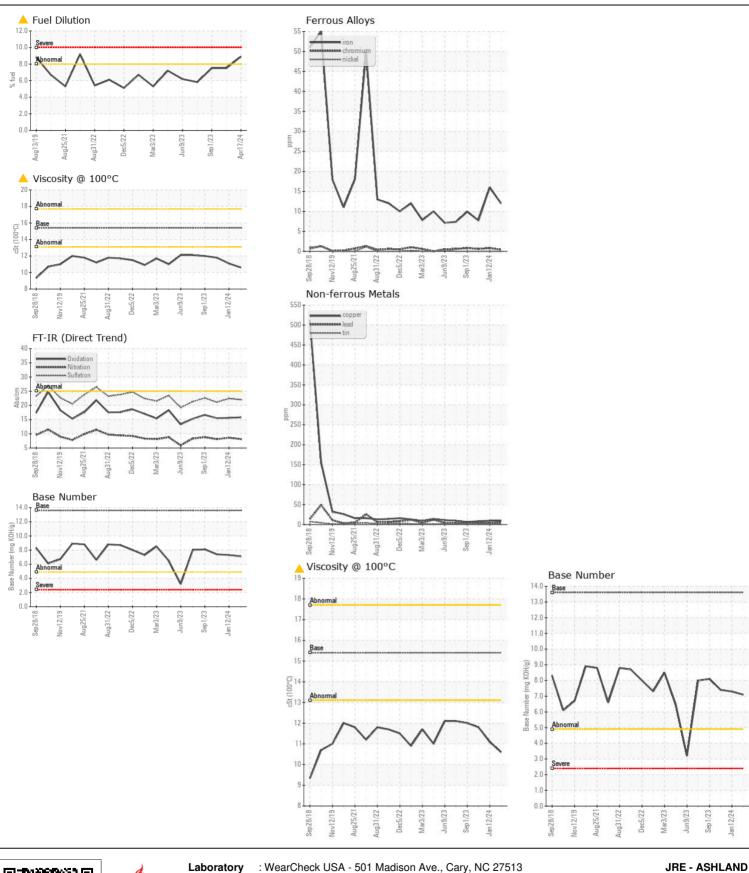
NORMAL ABNORMAL ABNORMAL

[W51222]

## **JOHN DEERE 844K 1DW844KAEJF688182**

Diesel Engine

DECOMMENDATION	Toot	LICAA	Mathad	Limit/Alex	Commercial	Lliatorid	Lliote ·O
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		JR0200059	JR0165980 12 Jan 2024	JR0179108 16 Oct 2023
	Sample Date Machine Age	hrs	Client Info		17 Apr 2024 8929	8426	7945
	Oil Age		Client Info		0929	0420	0
	Filter Age	hrs hrs	Client Info		0	0	0
	Oil Changed	1115	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status		Olletti IIIIO		ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	12	16	8
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	5	7	6
	Lead	ppm	ASTM D5185m	>26	5	3	3
	Copper	ppm	ASTM D5185m	>26	9	10	8
	Tin	ppm	ASTM D5185m	>4	2	1	1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<b>-22</b>	6	9	8
CONTAININATION	Potassium	ppm	ASTM D5185m		1	4	3
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Fuel	%	ASTM D3163111	>8.0	▲ 8.9	7.5	<1.0
	Water	/0	WC Method		NEG	NEG	NEG
	Glycol		WC Method	/ U.L.	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	8.1	8.6	8.1
	Sulfation	Abs/.1mm	*ASTM D7415		22.0	22.4	21.1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	<b>Emulsified Water</b>	scalar	*Visual	>0.21	NEG	NEG	NEG
ELUID CONDITION							
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	3	3	4
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no	Boron	ppm	ASTM D5185m		178	173	183
	Barium	ppm	ASTM D5185m		<1	0	1
	Monganasa	ppm	ASTM D5185m		219	219	243
longer serviceable due to the presence of contaminants.	Manganese	ppm	ASTM D5185m		<1 740	<1 767	<1
longer serviceable due to the presence of contaminants.	Magnasium	10 10 100			/40	767	787
longer serviceable due to the presence of contaminants.	Magnesium	ppm	ASTM D5185m				1000
longer serviceable due to the presence of contaminants.	Calcium	ppm	ASTM D5185m		1331	1309	1322
longer serviceable due to the presence of contaminants.	Calcium Phosphorus	ppm	ASTM D5185m ASTM D5185m		1331 787	1309 773	848
longer serviceable due to the presence of contaminants.	Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		1331 787 894	1309 773 984	848 1033
longer serviceable due to the presence of contaminants.	Calcium Phosphorus Zinc Sulfur	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25	1331 787 894 3226	1309 773 984 2785	848 1033 2948
longer serviceable due to the presence of contaminants.	Calcium Phosphorus Zinc	ppm ppm ppm ppm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7414		1331 787 894	1309 773 984	848 1033







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0200059 Lab Number : 06154138

Received **Tested** Unique Number: 10989561 Diagnosed

: 23 Apr 2024 : 23 Apr 2024 - Wes Davis

: 19 Apr 2024

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

Contact: DAVID ZIEG dzieg@jamesriverequipment.com T: (804)798-6001

11047 LEADBETTER RD

ASHLAND, VA

F: (804)798-0292

US 23005

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)