WEAR CONTAMINATION **FLUID CONDITION**

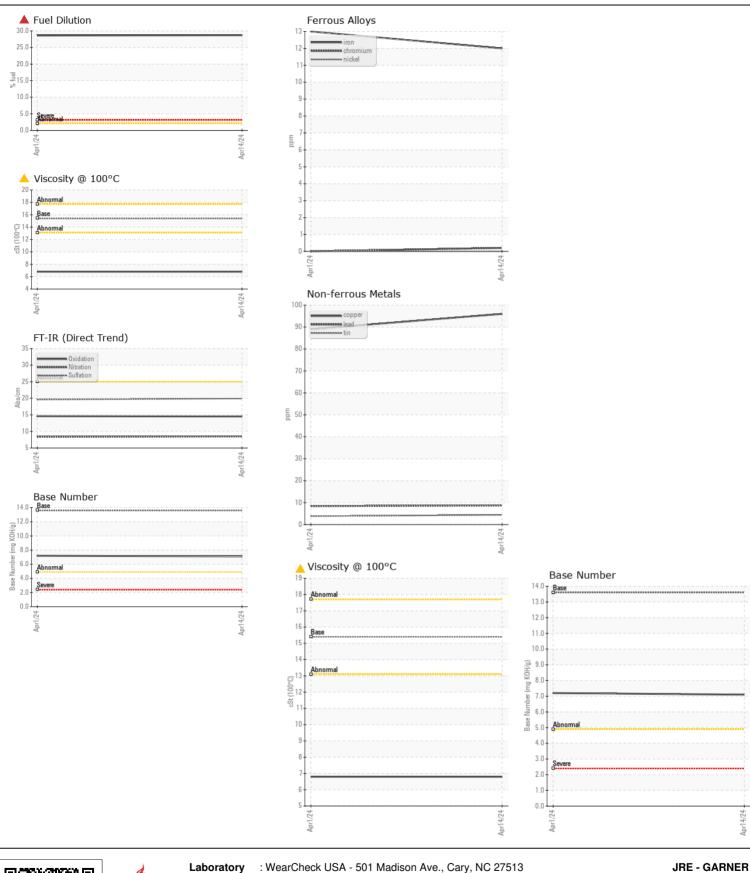
NORMAL SEVERE ABNORMAL

Machine Id

JOHN DEERE 460E II 1DW460ELTPF716766

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number	OOW	Client Info	LITTIOTOTI	JR0209102		
	Sample Date		Client Info		14 Apr 2024	01 Apr 2024	
	Machine Age	hrs	Client Info		947	947	
	Oil Age	hrs	Client Info		947	396	
	Filter Age	hrs	Client Info		0	396	
	Oil Changed	1110	Client Info		Changed	N/A	
	Filter Changed		Client Info		Changed	N/A	
	Sample Status		Onone inio		SEVERE	SEVERE	
VEAR	Iron	ppm	ASTM D5185m	>51	12	13	
	Chromium	ppm	ASTM D5185m	>11	<1	0	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>31	4	3	
	Lead	ppm	ASTM D5185m	>26	9	8	
	Copper	ppm	ASTM D5185m	>26	96	89	
	Tin	ppm	ASTM D5185m	>4	4	4	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTANUNATION	O'''					_	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	6	5	
There is a high amount of fuel present in the oil.	Potassium	ppm	ASTM D5185m		3	<1	
	Fuel	%	ASTM D3524		▲ 28.7	▲ 28.6	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol	21	WC Method	0	NEG	NEG	
	Soot %	%	*ASTM D7844		0.2	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	8.5	8.4	
	Sulfation	Abs/.1mm	*ASTM D7415		19.9	19.6	
	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	
LUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	4	
	Boron	ppm	ASTM D5185m		112	118	
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		0	<1	
	Molybdenum	ppm	ASTM D5185m		190	187	
	Manganese	ppm	ASTM D5185m		<1	1	
	Magnesium	ppm	ASTM D5185m		558	594	
	Calcium	ppm	ASTM D5185m		1046	1018	
	Phosphorus	ppm	ASTM D5185m		649	649	
	Zinc	ppm	ASTM D5185m		747	774	
	Sulfur	ppm	ASTM D5185m		1980	2350	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	14.6	
	Base Number (BN)		ASTM D2896		7.1	7.2	
	Dago . tambor (DIT)	9					





Certificate L2367

Laboratory Sample No.

: JR0209102 Lab Number : 06151742

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** Unique Number: 10981820

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

: 17 Apr 2024 : 22 Apr 2024 : 22 Apr 2024 - Jonathan Hester 4161 AUBURN CHURCH RD GARNER, NC US 27529

Contact: RALEIGH SHOP sean.betts@jamesriverequipment.com;catherine.anastasio@wearcheck.com

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)

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