WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ABNORMAL

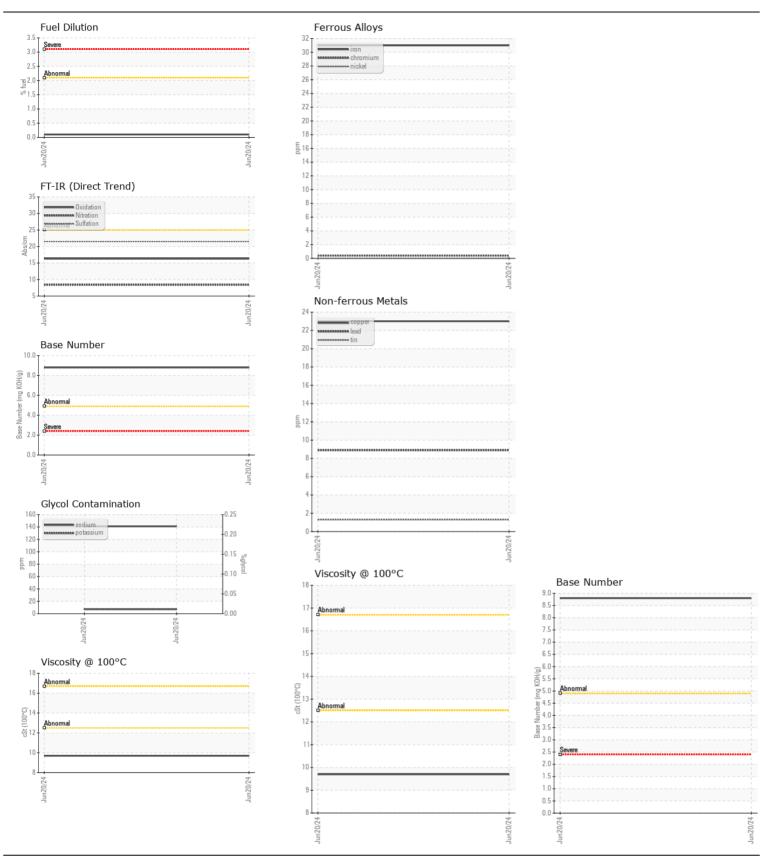
Machine Id

## **JOHN DEERE 310L 1T0310LXCNF413660**

Diesel Engine

Inot provided (15 GAL)

{not provided} (15 GAL)							
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. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		JR0213934		
	Sample Date		Client Info		20 Jun 2024		
	Machine Age	hrs	Client Info		352		
	Oil Age	hrs	Client Info		352		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
VEAR	Iron	ppm	ASTM D5185m	\51	31		
WEAR	Chromium	ppm	ASTM D5185m		<1		
Metal levels are typical for a new component breaking in.	Nickel		ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	>0			
		ppm		0	<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		13		
	Lead	ppm	ASTM D5185m		9		
	Copper	ppm	ASTM D5185m		23		
	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	15		
	Potassium	ppm	ASTM D5185m	>20	7		
Sodium and/or potassium levels are high. Fuel content negligible. Test for glycol is negative.	Fuel	%	ASTM D3524		0.1		
	Water	,,,	WC Method		NEG		
	Glycol	%	*ASTM D2982	7 O.L I	NEG		
	Soot %	%	*ASTM D7844	<b>\</b> 3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	8.4		
	Sulfation	Abs/.1mm	*ASTM D7415		21.5		
	Silt		*Visual	NONE	NONE		
	Debris	scalar	*Visual		NONE		
		scalar		NONE			
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.21	NEG		
FLUID CONDITION  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.	Sodium	ppm	ASTM D5185m	>31	<u> </u>		
	Boron	ppm	ASTM D5185m		248		
	Barium	ppm	ASTM D5185m		3		
	Molybdenum	ppm	ASTM D5185m		256		
	Manganese	ppm	ASTM D5185m		5		
	Magnesium	ppm	ASTM D5185m		855		
	Calcium	ppm	ASTM D5185m		1528		
	Phosphorus	ppm	ASTM D5185m		967		
	Zinc	ppm	ASTM D5185m		1163		
	Sulfur	ppm	ASTM D5185m		3616		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3		
	Base Number (BN)			7 - 5	8.8		
	Visc @ 100°C	cSt	ASTM D2030		9.7		
	VISC @ 100 C	COL	AOTIVI D443		9.1		







Report Id: RWMGRE [WUSCAR] 06217994 (Generated: 06/27/2024 10:23:02) Rev: 1

Laboratory Sample No. Unique Number : 11096191

Lab Number : 06217994

: JR0213934

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received

**Tested** Diagnosed

: 24 Jun 2024 : 27 Jun 2024 : 27 Jun 2024 - Jonathan Hester

JRE - GREENVILLE 3604 HIGHWAY 264 E GREENVILLE, NC US 27834-5800

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

Contact: GREENVILLE SHOP christopher.martin@jamesriverequipment.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: