WEAR CONTAMINATION FLUID CONDITION

NORMAL SEVERE SEVERE

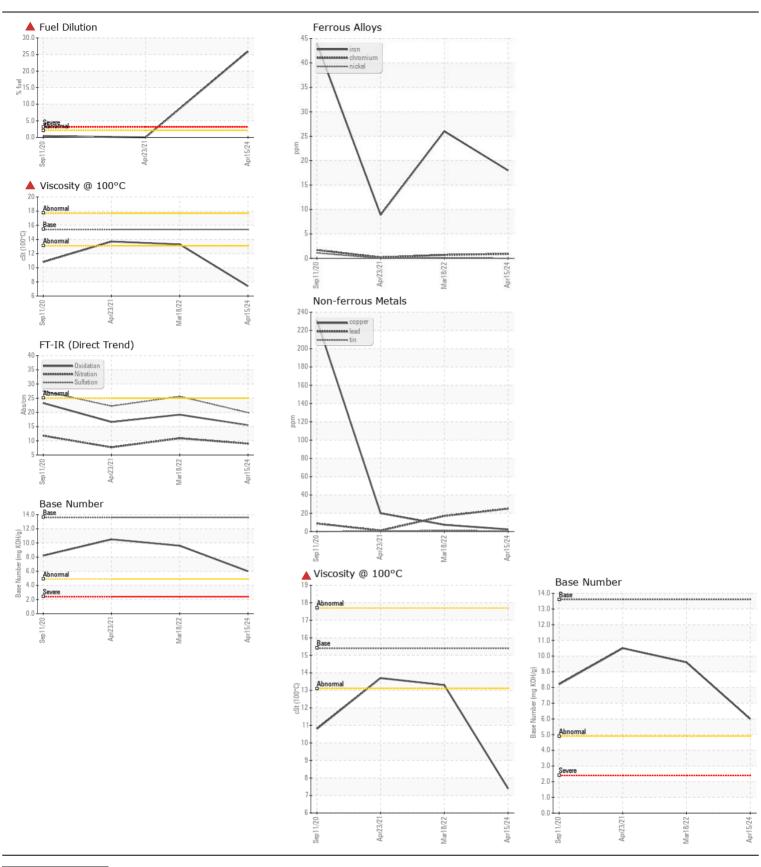
Area

[W66356]

JOHN DEERE 344L 1LU344LXEZB056188

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.	Sample Number		Client Info		JR0171125	JR0118734	,
	Sample Date		Client Info		15 Apr 2024	18 Mar 2022	23 Apr 20
	Machine Age	hrs	Client Info		4638	1506	899
	Oil Age	hrs	Client Info		0	500	0
	Filter Age	hrs	Client Info		0	500	0
	Oil Changed		Client Info		Not Changd	Changed	Change
	Filter Changed		Client Info		Not Changd	Changed	Change
	Sample Status				SEVERE	NORMAL	NORMA
VEAR	Iron	ppm	ASTM D5185m	>51	18	26	9
	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	<1	<1
	Aluminum	ppm	ASTM D5185m		5	5	0
	Lead	ppm	ASTM D5185m		25	17	1
	Copper	ppm	ASTM D5185m		2	7	20
	Tin	ppm	ASTM D5185m		- <1	1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NON
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NON
ONTAMINATION	0:1:		AOTA DE LOS			_	
ONTAMINATION	Silicon	ppm	ASTM D5185m ASTM D5185m		5 2	7	6
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium Fuel	ppm o/	ASTM D3163111		≥ △ 25.9	<1.0	<1.0
	Water	%	WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	\3	1.1	0.7	0.2
	Nitration	Abs/cm		>20	9.0	10.9	7.7
	Sulfation	Abs/.1mm			19.9	25.6	22.2
	Silt	scalar	*Visual	NONE	NONE	NONE	NON
	Debris	scalar	*Visual	NONE	NONE	NONE	NON
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NON
	Appearance	scalar	*Visual	NORML	NORML	NORML	NOF
	Odor	scalar	*Visual	NORML	NORML	NORML	NOR
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
LUID CONDITION	Sodium	nnm	ASTM D5185m	-31	<1	2	2
LOID CONDITION	Boron	ppm	ASTM D5185m	/U I	17	174	257
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 longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		0	0	<1
	Molybdenum	ppm	ASTM D5185m		47	238	235
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		283	852	729
	Calcium	ppm	ASTM D5185m		1129	1539	128
	Phosphorus	ppm	ASTM D5185m		728	821	810
	Zinc	ppm	ASTM D5185m		825	994	937
	Sulfur	ppm	ASTM D5185m		2275	2731	235
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	19.2	16.6
						9.6	10.5
	Base Number (BN)	mg NOH/a	ASTM D2896	13.0	6.0	9.0	10.0





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0171125 Lab Number : 06151762

Unique Number : 10981840

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

Received **Tested**

: 17 Apr 2024 : 22 Apr 2024 Diagnosed

: 22 Apr 2024 - Wes Davis Test Package: CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

JRE - CHARLOTTE 9550 STATESVILLE ROAD CHARLOTTE, NC US 28269

Contact: CHARLOTTE SHOP myoung@jamesriverequipment.com T: (704)597-0211

* - 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: (704)596-6198