

**WEAR** CONTAMINATION **FLUID CONDITION** 

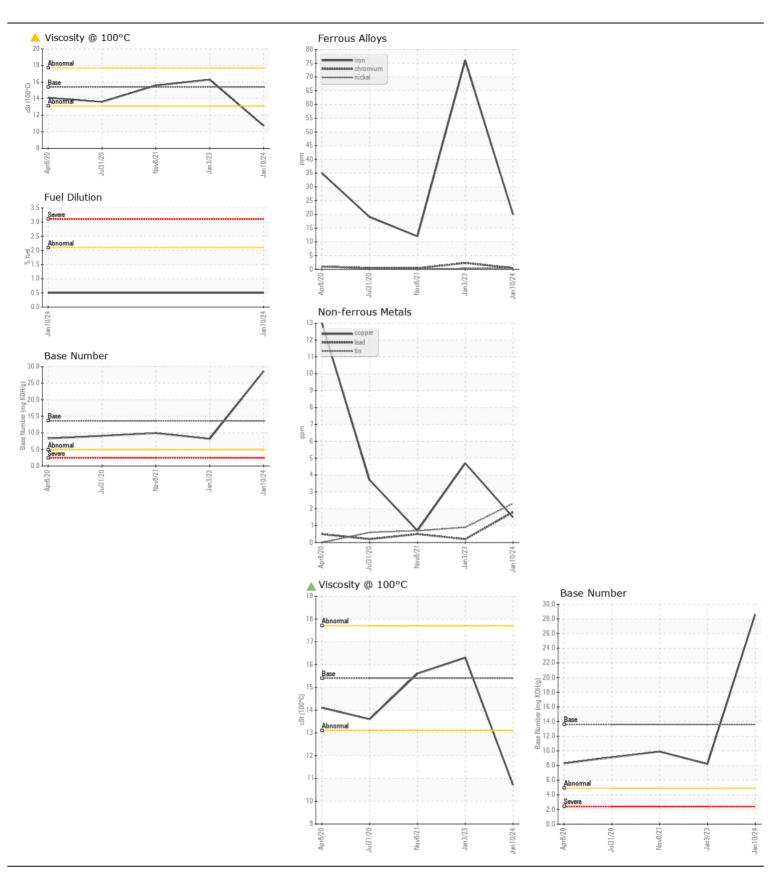
**NORMAL NORMAL ATTENTION** 

Store 9 - Marietta [146280]

## **JOHN DEERE 304L 1LU304LXLZB048374**

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LEC0046162	LEC0037272	LEC002354
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		10 Jan 2024	03 Jan 2023	08 Nov 202
	Machine Age	hrs	Client Info		5748	5040	4184
	Oil Age	hrs	Client Info		708	856	1731
	Filter Age	hrs	Client Info		708	856	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	ABNORMAL	NORMAL
WEAR	Iron	nnm	ASTM D5185m	. 51	20	A 76	10
WEAR	Iron	ppm			20	▲ 76 2	12
All component wear rates are normal.	Chromium Nickel	ppm	ASTM D5185m ASTM D5185m		<1 <1		0
	Titanium	ppm	ASTM D5185m	>5		<1 <1	0
	Silver	ppm		. 2	0		
	Aluminum	ppm	ASTM D5185m ASTM D5185m		5	0 <b>^</b> 7	0
	Lead	ppm	ASTM D5185m		2	<1	<1
	Copper	ppm	ASTM D5185m		2	5	<1
	Tin	ppm	ASTM D5185m		2	<1	<1
	Vanadium	ppm	ASTM D5185m	77	<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		17	<u> </u>	4
Fuel content negligible. There is no indication of any contamination in	Potassium	ppm	ASTM D5185m		5	3	0
the oil.	Fuel	%	ASTM D3524		0.5	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.9	1.9	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	25.6	16.2	9.3
	Sulfation	Abs/.1mm	*ASTM D7415		12.8	33.7	23.3
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance Odor	scalar scalar	*Visual	NORML NORML	NORML NORML	NORML NORML	NORM NORM
				>0.21	NEG		NEG
<u></u>	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	<1	<1
	Boron	ppm	ASTM D5185m		169	97	252
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		240	297	252
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		892	844	803
	Calcium	ppm	ASTM D5185m		1609	1673	1413
	Phosphorus	ppm	ASTM D5185m		906	962	879
	Zinc	ppm	ASTM D5185m		1182	1195	981
	Sulfur	ppm	ASTM D5185m		3041	3525	2643
	Oxidation	Abs/.1mm	*ASTM D7414	>25	28.5	33.6	18.7
	Base Number (BN)	ma KOH/a	ASTM D2896	13.6	28.6	8.2	9.9
	Dase Mulliber (DIN)	mg nomg	710 TIVI DE000	10.0	20.0	0.2	0.0







Laboratory Sample No. Lab Number

: LEC0046162 : 06060036 : 10831418 **Unique Number** 

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 12 Jan 2024 Diagnosed : 18 Jan 2024

Diagnostician : Jonathan Hester Test Package : CONST ( Additional Tests: FuelDilution, PercentFuel, 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)

LESLIE EQUIPMENT COMPANY

105 TENNIS CENTER DR. MARIETTA, OH US 45750-9765 Contact: LEANNE KENDALL

KendalLeanne@lec1.com

T:

F: (740)373-5570