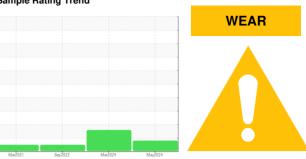


## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# **JOHN DEERE 310L 1T0310LXLJF340157**

**Diesel Engine** 

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

#### **DIAGNOSIS**

#### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Note that there appears to be a discrepancy in the total time on this component, when compared to the historical data.

#### Wear

The lead level is abnormal. All other component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

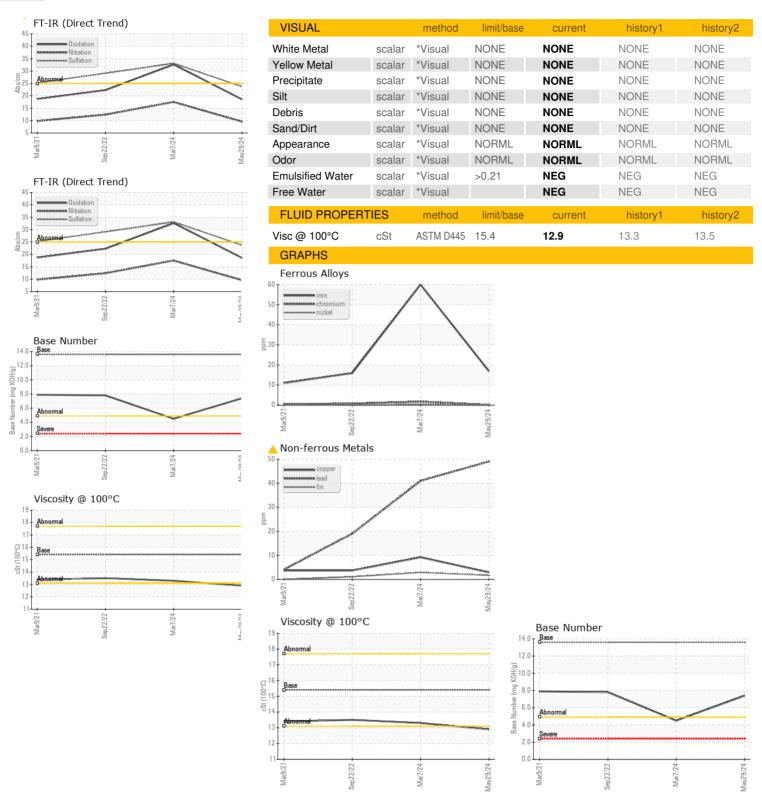
#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

io ( GAL)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0212118	JR0199728	JR0147495
Sample Date		Client Info		29 May 2024	07 Mar 2024	22 Sep 2022
Machine Age	hrs	Client Info		3246	3809	2428
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	17	<b>6</b> 0	16
Chromium	ppm	ASTM D5185m	>11	<1	2	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	7	10	4
Lead	ppm	ASTM D5185m	>26	<b>4</b> 9	<u> </u>	19
Copper	ppm	ASTM D5185m	>26	3	9	4
Tin	ppm	ASTM D5185m	>4	2	3	1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES	1-1-	method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m	minu bass	63	26	55
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum		ASTM D5185m		248	262	218
	ppm	ASTM D5185m		240	5	2
Manganese	ppm				820	753
Magnesium	ppm	ASTM D5185m		840		
Calcium	ppm	ASTM D5185m		1479	1521	1412
Phosphorus	ppm	ASTM D5185m		839	841	666
Zinc	ppm	ASTM D5185m		992	1037	840
Sulfur	ppm	ASTM D5185m		3530	3114	3120
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	11	9	7
Sodium	ppm	ASTM D5185m	>31	3	2	2
Potassium	ppm	ASTM D5185m	>20	1	3	<1
Fuel	%	ASTM D3524	>2.1	<1.0	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.5	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.6	17.5	12.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	33.1	29.1
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.6	32.6	22.3
				10.0	02.0	22.0
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.4	4.5	7.8



### **OIL ANALYSIS REPORT**







Certificate 12367

Sample No.

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

: JR0212118 Lab Number : 06195299

Received **Tested** 

: 30 May 2024

: 31 May 2024

Unique Number : 11057422 Diagnosed : 01 Jun 2024 - Don Baldridge Test Package : CONST ( Additional Tests: FuelDilution, TBN )

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

 $^st$  - 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)

JRE - ASHLAND

11047 LEADBETTER RD ASHLAND, VA US 23005

Contact: DAVID ZIEG dzieg@jamesriverequipment.com

T: (804)798-6001

F: (804)798-0292 Contact/Location: DAVID ZIEG - JAMASH