WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

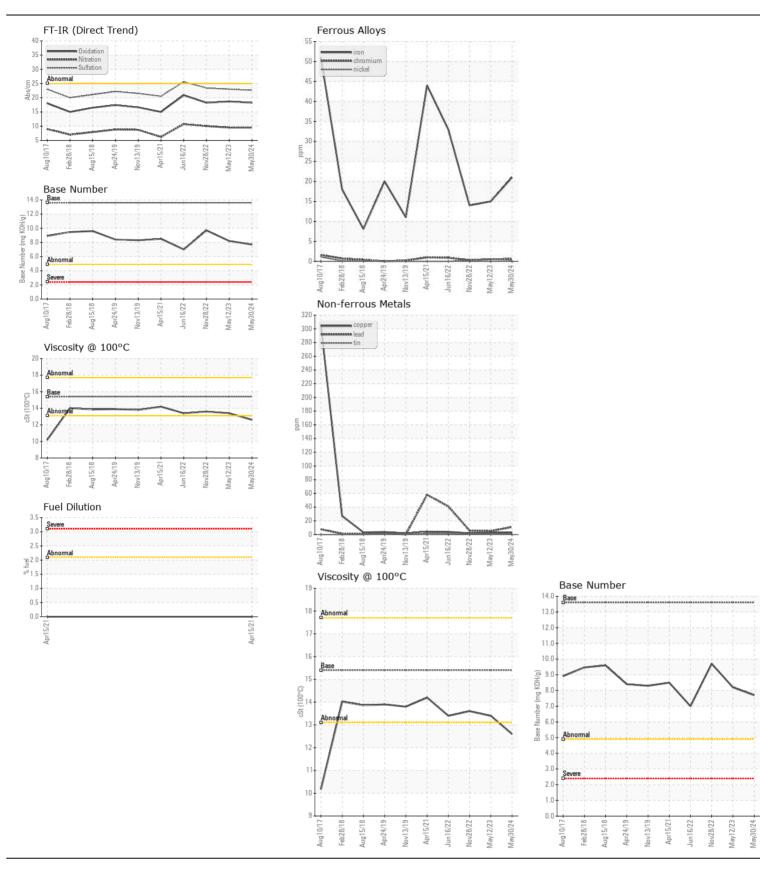
Machine Id

## **JOHN DEERE 1T0310SLCGF300897**

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (14 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0217688	JR0172722	JR015450
	Sample Date		Client Info		30 May 2024	12 May 2023	28 Nov 202
	Machine Age	hrs	Client Info		3831	3416	3077
	Oil Age	hrs	Client Info		415	339	3077
	Filter Age	hrs	Client Info		415	339	3077
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>51	21	15	14
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m		<1	<1	<1
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>31	5	4	4
	Lead	ppm	ASTM D5185m	>26	11	5	6
	Copper	ppm	ASTM D5185m	>26	3	3	2
	Tin	ppm	ASTM D5185m	>4	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ASTM D5185m	> 22	6	7	6
ONTAMINATION	Potassium	ppm	ASTM D5185m		2	2	0
There is no indication of any contamination in the oil.	Fuel	ppm %	ASTM D3163111		<1.0	<1.0	<1.0
	Water	70	WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	9.5	9.5	10.0
	Sulfation	Abs/.1mm	*ASTM D7415		22.6	23.0	23.4
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORN
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	<b>Emulsified Water</b>	scalar	*Visual	>0.21	NEG	NEG	NEG
LUD CONDITION							
LUID CONDITION	Sodium	ppm	ASTM D5185m	>31	0	<1	2
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		233	239	220
	Barium	ppm	ASTM D5185m		<1	3	0
	Molybdenum	ppm	ASTM D5185m		251	264	240
	Manganese	ppm	ASTM D5185m		<1	<1 206	<1
	Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		743 1338	806 1411	804 1534
	Phosphorus	ppm	ASTM D5185m		872	911	836
	Zinc	ppm	ASTM D5185m		1035	1073	1089
	Sulfur	ppm	ASTM D5185m		3125	2833	3414
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.2	18.7	18.2
	Base Number (BN)		ASTM D2896		7.7	8.2	9.7
	Visc @ 100°C	cSt	ASTM D445		12.6	13.4	13.6







Certificate L2367

Laboratory Sample No.

**Lab Number** : 06197452 Unique Number : 11059575

: JR0217688

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

: 04 Jun 2024 Diagnosed

: 04 Jun 2024 - Don Baldridge Test Package: CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

: 03 Jun 2024

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)

**NPL CONSTRUCTION** 

7611 COPPERMINE DR MANASSAS, VA US 20109-2668 Contact: BRANDON

T:

F: