WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

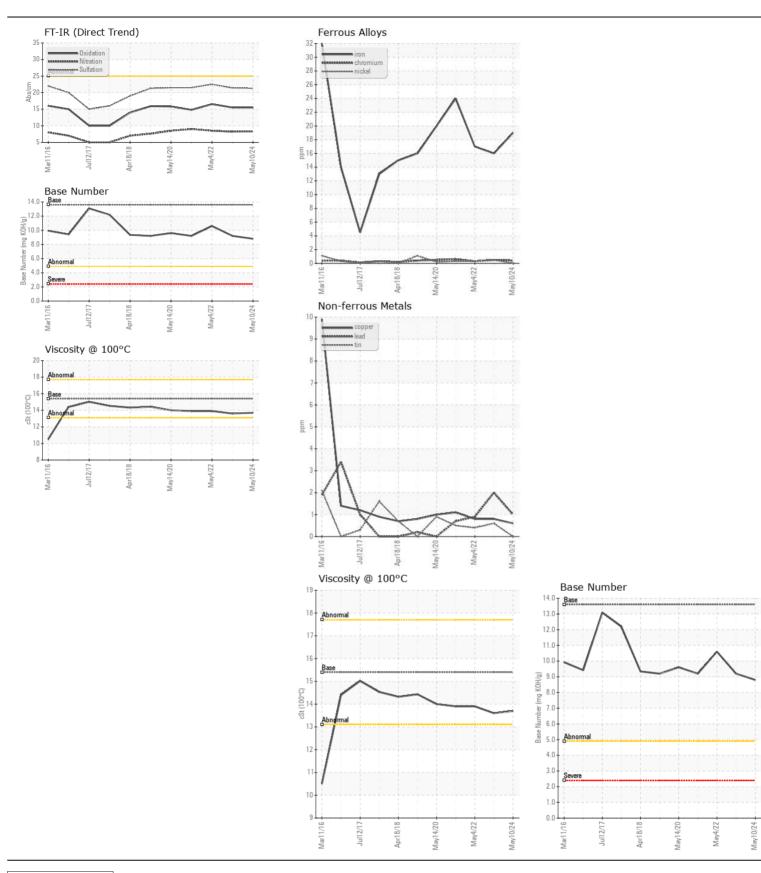


## Machine Id JOHN DEERE 300D 1DW300DXJFE672732

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (40 GAL)

			GAL)				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0212127	JR0164676	JR0125357
Resample at the next service interval to monitor.	Sample Date		Client Info		10 May 2024	25 May 2023	04 May 2022
	Machine Age	hrs	Client Info		5440	4956	4456
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	19	16	17
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	<1	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m		3	2	3
	Lead	ppm	ASTM D5185m		1	2	<1
	Copper	ppm	ASTM D5185m		<1	<1	<1
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	7	8	6
	Potassium	ppm	ASTM D5185m		29	7	2
There is no indication of any contamination in the oil.	Fuel	1-1-	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.3	8.2	8.5
	Sulfation	Abs/.1mm	*ASTM D7415		21.3	21.4	22.5
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	35	7	2
LOID CONDITION	Boron	ppm	ASTM D5185m	70.	205	227	238
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m		260	240	238
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		823	856	883
	Calcium	ppm	ASTM D5185m		1560	1433	1498
	Phosphorus	ppm	ASTM D5185m		949	913	874
	Zinc	ppm	ASTM D5185m		1129	1125	1080
	Sulfur	ppm	ASTM D5185m		3652	3737	2714
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	15.5	16.5
	Base Number (BN)				8.8	9.2	10.6
	Visc @ 100°C	cSt	ASTM D2030		13.7	13.6	13.9
	V130 (W 100 C	COL	CPPU IVI UM	10.4	( 13.7 )	10.0	10.0







Certificate L2367

Laboratory

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0212127 Lab Number : 06176999

Unique Number : 11023052

Test Package : CONST (Additional Tests: TBN)

Received : 13 May 2024 **Tested** : 14 May 2024 Diagnosed

: 14 May 2024 - Wes Davis

US 23005 Contact: DAVID ZIEG dzieg@jamesriverequipment.com

Contact/Location: DAVID ZIEG - JAMASH

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. T: (804)798-6001

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (804)798-0292

11047 LEADBETTER RD

JRE - ASHLAND

ASHLAND, VA