

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

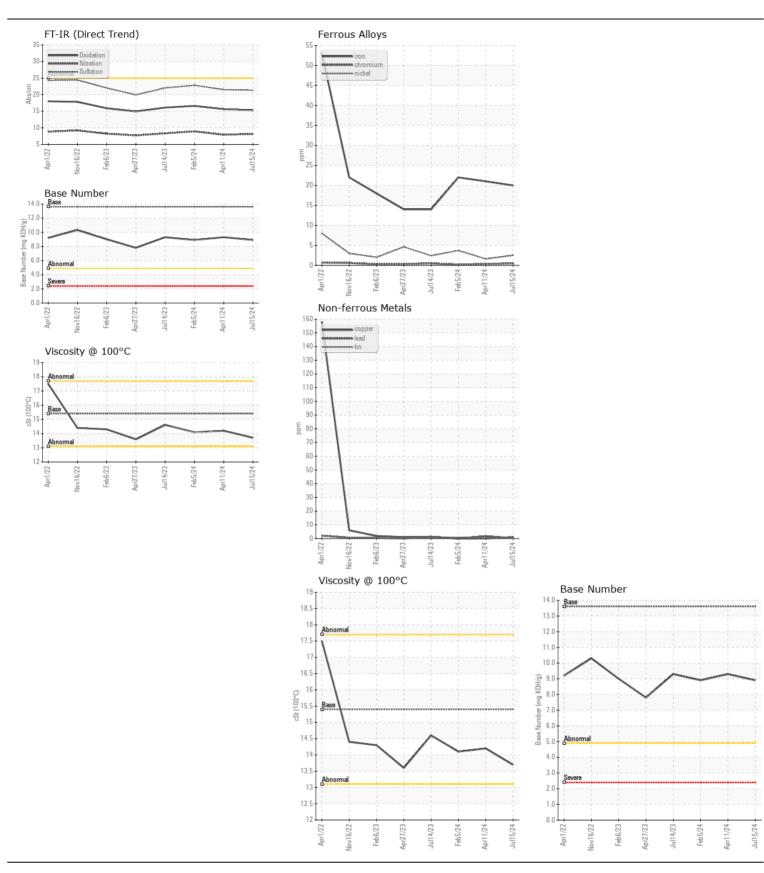
[127686]

JOHN DEERE 824L 1DW824LXVML712912

Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WE0007958	WE0006834	WE000645
	Sample Date		Client Info		15 Jul 2024	11 Apr 2024	05 Feb 202
	Machine Age	hrs	Client Info		5107	4524	4097
	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	20	21	22
	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		2	2	4
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		4	4	5
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m		<1	2	0
	Tin	ppm	ASTM D5185m		0	1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon		ASTM D5185m	. 00	44	0	9
CONTAINMATION	Potassium	ppm	ASTM D5185m		11 3	9	<1
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	<i>></i> 0.∠1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	~3	0.4	0.3	0.4
	Nitration	Abs/cm	*ASTM D7624		8.1	7.9	8.9
	Sulfation	Abs/.1mm	*ASTM D7415		21.3	21.5	22.8
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
THUD CONDITION	C		ACTA DE105	04		45	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	3	15	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		206	235	231
	Barium	ppm	ASTM D5185m		<1 255	<1	1
	Molybdenum	ppm	ASTM D5185m ASTM D5185m		255	228 <1	282 <1
	Manganese	ppm			<1 824		894
	Magnesium	ppm	ASTM D5185m			826	
	Calcium	ppm	ASTM D5185m ASTM D5185m		1422	1412	1419
	Phosphorus	ppm			877	842	947
	Zinc	ppm	ASTM D5185m		1002	1018	1147
	Sulfur	ppm Abo/1mm	ASTM D5185m	. 05	3187	3458	3042
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3	15.6	16.6
	Base Number (BN)	ma 1/011/-	ACTM DOOGO	100	8.9	9.3	8.9







Certificate L2367

Laboratory Sample No.

Lab Number : 06239933

: WE0007958 Unique Number : 11128767

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Jul 2024 **Tested** : 18 Jul 2024

Diagnosed : 18 Jul 2024 - Wes Davis Test Package : CONST (Additional Tests: TBN)

WARRIOR TRACTOR AND EQUIPMENT - NORTHPORT P.O. BOX 412

NORTHPORT, AL US 35476

Contact: CRAIG ANDOE serve01@warriortractor.com T: (205)339-0300

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)

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