WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

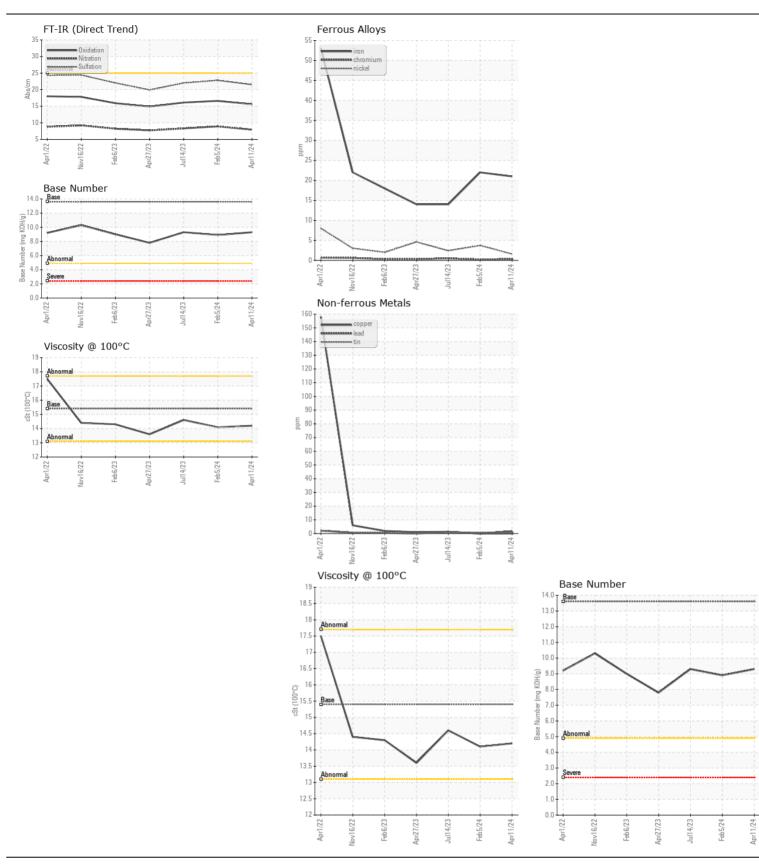
Machine Id

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		WE0006834	WE0006451	WE000453
	Sample Date		Client Info		11 Apr 2024	05 Feb 2024	14 Jul 2023
	Machine Age	hrs	Client Info		4524	4097	2991
	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	21	22	14
	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		2	4	2
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m		4	5	3
	Lead	ppm	ASTM D5185m		0	0	1
	Copper	ppm	ASTM D5185m		2	0	1
	Tin	ppm	ASTM D5185m		1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ASTM D5185m	-22	9	9	9
CONTAININATION	Potassium	ppm	ASTM D5185m		3	<1	3
There is no indication of any contamination in the oil.	Fuel	ррпп	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	0.3	0.4	0.3
	Nitration	Abs/cm	*ASTM D7624		7.9	8.9	8.3
	Sulfation	Abs/.1mm	*ASTM D7024		21.5	22.8	22.0
	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
TI LUD CONDITION	0 "		40TM DE405				
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	15	2	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		235	231	264
	Barium	ppm	ASTM D5185m		<1	1	0
	Molybdenum	ppm	ASTM D5185m		228	282	271
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		826	894	948
	Calcium	ppm	ASTM D5185m		1412	1419	1601
	Phosphorus	ppm	ASTM D5185m		842	947	967
	Zinc	ppm	ASTM D5185m		1018	1147	1182
	Sulfur	ppm	ASTM D5185m	05	3458	3042	3876
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.6	16.6	16.1
	Base Number (BN)	ma 1/011/	ACTM DOOGS	10.0	9.3	8.9	9.3







Laboratory Sample No.

Lab Number : 06150153

: WE0006834

Unique Number: 10980231

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Apr 2024 **Tested** : 17 Apr 2024

Diagnosed : 17 Apr 2024 - Wes Davis

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

NORTHPORT, AL US 35476

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

Test Package : CONST (Additional Tests: TBN) Certificate L2367 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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