



WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

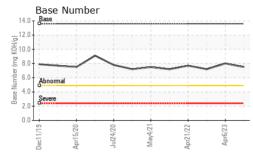
Store 9 - Marietta

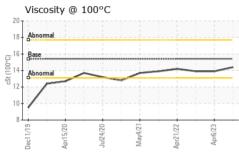
JOHN DEERE 544L 1DW544LZVKF695734

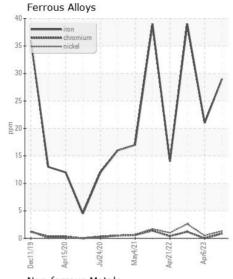
Diesel Engine

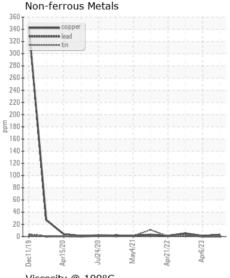
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)

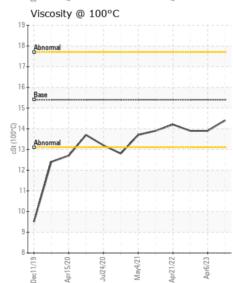
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LEC0043819	LEC0038218	LEC0037156
Resample at the next service interval to monitor.	Sample Date		Client Info		17 Aug 2023	06 Apr 2023	20 Dec 2022
	Machine Age	hrs	Client Info		6864	6347	5934
	Oil Age	hrs	Client Info		517	413	986
	Filter Age	hrs	Client Info		517	413	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	29	21	39
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	0	1
	Nickel	ppm	ASTM D5185m		1	<1	3
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		4	4	6
	Lead	ppm	ASTM D5185m		0	0	2
	Copper	ppm	ASTM D5185m		3	1	6
	Tin	ppm	ASTM D5185m		<1	0	3
	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	ppm	ASTM D5185m		9	8	8
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	1	5
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		1.3	0.8	1
	Nitration	Abs/cm	*ASTM D7624	>20	10.2	10.1	12.7
	Sulfation	Abs/.1mm	*ASTM D7415		25.1 NONE	24.2	31.8
	Silt Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE NONE	NONE NONE	NONE
		scalar scalar	*Visual	NORML	NORML	NORML	NORML
	Appearance Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
			Visuai	20.21	·····		INLO
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	4	3	6
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		112	159	32
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		256	232	228
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		786	785	719
	Calcium	ppm	ASTM D5185m		1500	1571	1684
	Phosphorus	ppm	ASTM D5185m		912	891	1015
	Zinc	ppm	ASTM D5185m		1123	1137	1194
	Sulfur	ppm	ASTM D5185m		3066	3158	3295
	Oxidation	Abs/.1mm	*ASTM D7414		18.6	18.9	26.7
	Base Number (BN)	0 0	ASTM D2896		7.5	8.0	7.2
	Visc @ 100°C	cSt	ASTM D445	15.4	14.4	13.9	13.9

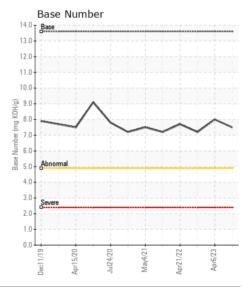














Laboratory Sample No.

Lab Number : 05930697 Unique Number: 10615968

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0043819

Received : 22 Aug 2023 **Tested**

: 22 Aug 2023 : 22 Aug 2023 - Wes Davis

Diagnosed Test Package : CONST (Additional Tests: TBN)

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.

LESLIE EQUIPMENT COMPANY

105 TENNIS CENTER DR. MARIETTA, OH

US 45750-9765 Contact: LEANNE KENDALL

KendalLeanne@lec1.com

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