

WEAR CONTAMINATION FLUID CONDITION **ABNORMAL NORMAL NORMAL**

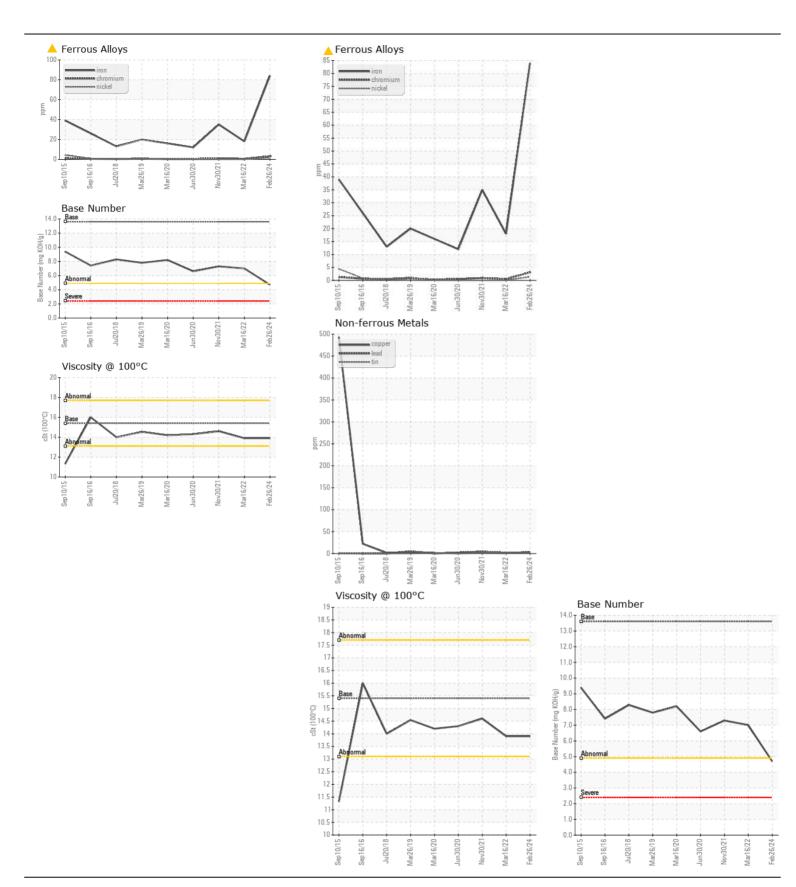


Store 9 - Marietta

John Deere 544K 1DW544KZHEE659476

Component Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0045029		LEC0025570
	Sample Date		Client Info		26 Feb 2024	16 Mar 2022	30 Nov 2021
	Machine Age	hrs	Client Info		10641	6830	6215
	Oil Age	hrs	Client Info		500	615	814
	Filter Age	hrs	Client Info		500	615	814
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.	Iron	ppm	ASTM D5185m	>51	4 84	18	35
	Chromium	ppm	ASTM D5185m	>11	3	<1	<1
	Nickel	ppm	ASTM D5185m	>5	1	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	7	2	3
	Lead	ppm	ASTM D5185m	>26	3	2	4
	Copper	ppm	ASTM D5185m	>26	3	<1	1
	Tin	ppm	ASTM D5185m	>4	1	<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 There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>!20	12	6	7
	Potassium	ppm	ASTM D5185m	>20	2	0	<1
	Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	1.4	0.5	1
	Nitration	Abs/cm	*ASTM D7624	>20	14.3	9.6	13
	Sulfation	Abs/.1mm	*ASTM D7415	>30	31.2	24.5	29.6
	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	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	5	2	3
The DNI could be directed the Atlanta is excitable a fleet because in the	Boron	ppm	ASTM D5185m		18	148	29
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		0	0	0
	Molybdenum	ppm	ASTM D5185m		163	284	241
	Manganese	ppm	ASTM D5185m		2	<1	<1
	Magnesium	ppm	ASTM D5185m		423	881	767
	Calcium	ppm	ASTM D5185m		1926	1599	1546
	Phosphorus	ppm	ASTM D5185m		1041	1013	883
	Zinc	ppm	ASTM D5185m		1235	1153	1065
	Sulfur	ppm	ASTM D5185m		3528	3037	2624
	Oxidation	Abs/.1mm	*ASTM D7414		26.9	19.0	25.3
	Base Number (BN)				4.7	7.0	7.3
	Visc @ 100°C	cSt	ASTM D445	15.4	13.9	13.9	14.6







Report Id: LESMAROH [WUSCAR] 06102783 (Generated: 02/29/2024 21:36:07) Rev: 1

Laboratory Sample No.

: LEC0045029 Lab Number : 06102783

Unique Number : 10901013

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Feb 2024 : 29 Feb 2024 **Tested**

: 29 Feb 2024 - Don Baldridge Diagnosed

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

* - 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)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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