



OIL ANALYSIS REPORT

WEAR CONTAMINATION FLUID CONDITION

NORMAL SEVERE MARGINAL



Store 9 - Marietta [RO#151218]

JOHN DEERE 1050K SB 1T01050PJJF333070

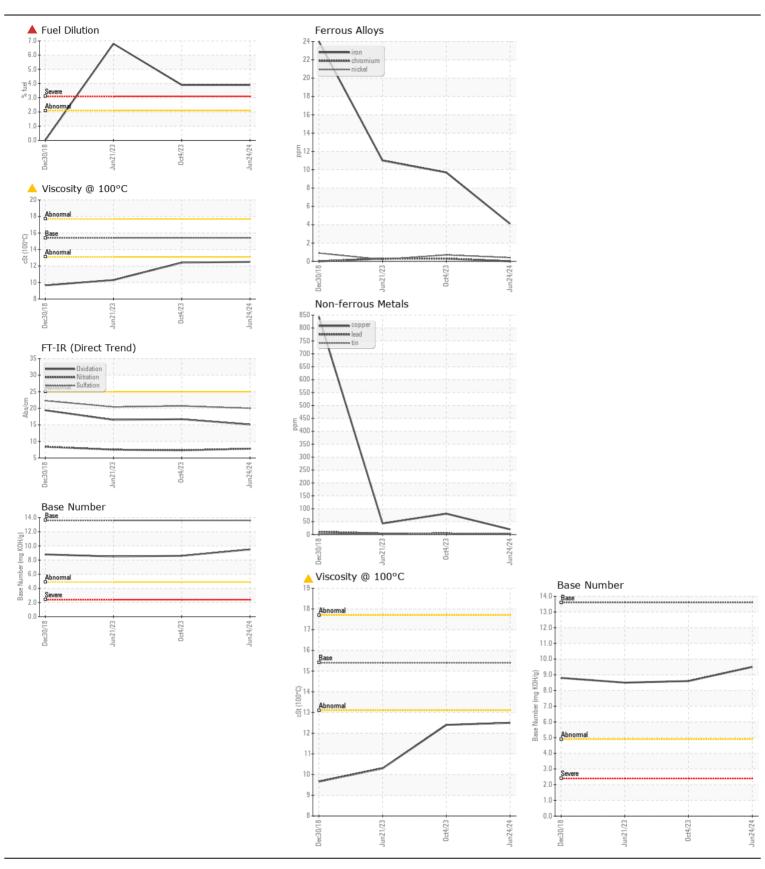
Diesel Engine

JOHN DEERE ENGINE OIL PLU	JS 50 II 15W	40 (12	2 GAL)				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		LEC0050002	LEC0035464	
	Sample Date		Client Info		24 Jun 2024	04 Oct 2023	21 Jun 202
	Machine Age	hrs	Client Info		1029	758	488
	Oil Age	hrs	Client Info		271	270	30
	Filter Age	hrs	Client Info		271	270	30
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				SEVERE	ABNORMAL	SEVERE
WEAR	Iron	ppm	ASTM D5185m	>37	4	10	11
	Chromium	ppm	ASTM D5185m	>11	0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	<1	<1	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	4	6	2
	Lead	ppm	ASTM D5185m	>26	3	4	4
	Copper	ppm	ASTM D5185m		20	<u></u> 81	43
	Tin	ppm	ASTM D5185m	>4	3	3	2
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	6	8	8
	Potassium	ppm	ASTM D5185m	>20	2	2	3
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Fuel	%	ASTM D3524	>2.1	4 3.9	△ 3.9	6.8
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	7.8	7.3	7.5
	Sulfation	Abs/.1mm	*ASTM D7415		20.0	20.7	20.4
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE NORML	NONE NORML	NONE
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML	NORML	NORMI
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
ELUID CONDITION			AOTA DEADE			4	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	4	7
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		267	300	205
oil. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m ASTM D5185m		0 228	0 245	0 173
	Molybdenum Manganese	ppm	ASTM D5185m			<1 <1	1/3
	Magnesium	ppm	ASTM D5185m		<1 815	734	733
	Calcium	ppm	ASTM D5185m		1363	1332	1469
	Phosphorus	ppm	ASTM D5185m		908	860	864
	Zinc	ppm	ASTM D5185m		1065	1040	1090
	Sulfur	ppm	ASTM D5185m		3507	3262	3974
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	16.7	16.5
	Base Number (BN)				9.5	8.6	8.5
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	01	AOTA D 445	45.4		4.40.4	4 40 0

Visc @ 100°C cSt

12.5

ASTM D445 15.4







Report Id: LESMAROH [WUSCAR] 06228261 (Generated: 07/09/2024 23:28:51) Rev: 1

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06228261

: LEC0050002 Unique Number : 11111754

Received

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

: 05 Jul 2024 **Tested** : 09 Jul 2024 Diagnosed

: 09 Jul 2024 - Wes Davis

Test Package : CONST (Additional Tests: PercentFuel, 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.

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