

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ATTENTION



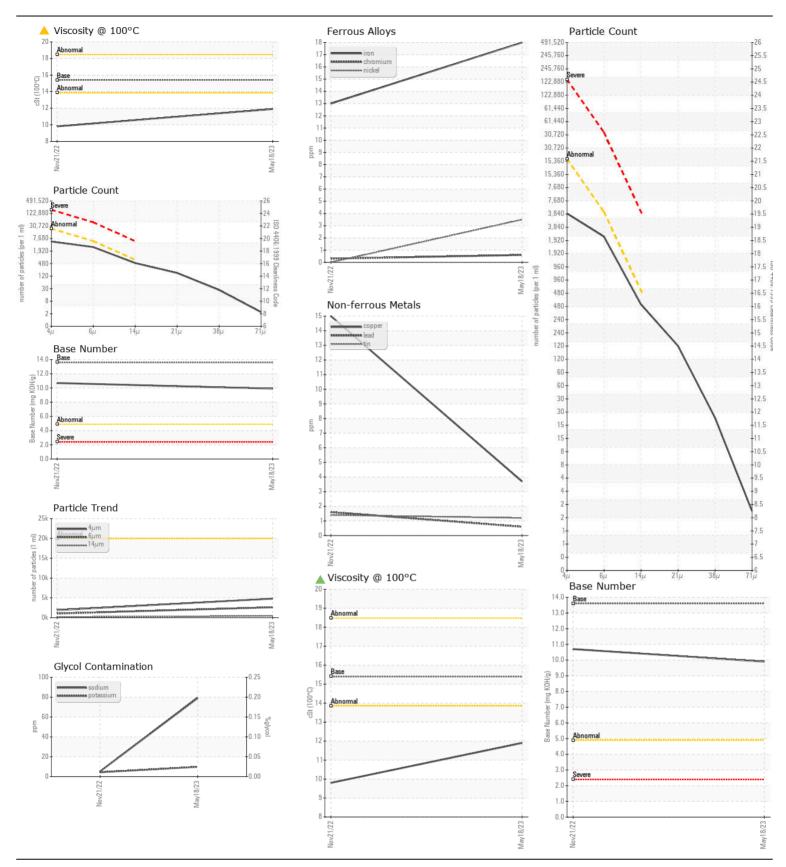
Contracting
Machine Id
1DW310EXJNF716118 5111

Component Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (9 GAL)

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DECOMMENDATION	Toot	LIOM	Mathad	Limit/Abn	Current	Lliatomid	Lliatary
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current WC0808946	History1	History2
Oil and filter change at the time of sampling has been noted. Resample	Sample Number		Client Info				
at the next service interval to monitor.	Sample Date Machine Age	bro	Client Info		18 May 2023	21 Nov 2022 83	
at the next service interval to monitor.	Oil Age	hrs hrs	Client Info		772 103	83	
	Filter Age	hrs	Client Info		103	83	
	Oil Changed	1115	Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status		Chefit iiiio		ATTENTION	NORMAL	
	Sample Status				ATTENTION	NORIVIAL	
WEAR	Iron	ppm	ASTM D5185m	>51	18	13	
WEAIT	Chromium	ppm	ASTM D5185m		<1	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		4	0	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m		4	3	
	Lead	ppm	ASTM D5185m		<1	2	
	Copper	ppm	ASTM D5185m		4	15	
	Tin	ppm	ASTM D5185m	>4	1	1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		8	8	
	Potassium	ppm	ASTM D5185m		10	4	
Sodium and/or potassium levels are high. Test for glycol is negative.	Fuel	%	ASTM D3524	>2.1	<1.0	0.3	
The amount and size of particulates present in the system are acceptable.	Water		WC Method	>0.21	NEG	NEG	
	Glycol	%	*ASTM D2982		NEG	NEG	
	Soot %	%	*ASTM D7844		0.2	0.1	
	Nitration	Abs/cm	*ASTM D7624	>20	7.4	6.7	
	Sulfation	Abs/.1mm	*ASTM D7415		21.8	21.6	
	Particles >4µm		ASTM D7647	>20000	4802	1914	
	Particles >6µm		ASTM D7647		2616	1043	
	Particles >14µm		ASTM D7647		445	177	
	Particles >21µm		ASTM D7647		150	60	
	Particles >38μm		ASTM D7647		23	9	
	Particles >71µm		ASTM D7647		2	1 10/17/15	
	Oil Cleanliness Silt	coolor	ISO 4406 (c) *Visual	>21/19/16 NONE	19/19/16 NONE	18/17/15 NONE	
	Debris	scalar scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.21	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	4 79	5	
	Boron	ppm	ASTM D5185m		62	275	
The oil viscosity is lower than normal. The BN result indicates that	Barium	ppm	ASTM D5185m		0	2	
there is suitable alkalinity remaining in the oil. Confirm oil type.	Molybdenum	ppm	ASTM D5185m		83	238	
	Manganese	ppm	ASTM D5185m		1	1	
	Magnesium	ppm	ASTM D5185m		577	779	
	Calcium	ppm	ASTM D5185m		1622	1392	
	Phosphorus	ppm	ASTM D5185m		784	892	
	Zinc	ppm	ASTM D5185m		995	1040	
	Sulfur	ppm	ASTM D5185m	0.5	3173	3505	
	Oxidation	Abs/.1mm	*ASTM D7414		19.8	16.1	
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.9	10.7	

Visc @ 100°C cSt ASTM D445 15.4





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: WC0808946 : 05853034

: 10482389

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

: 22 May 2023 : 24 May 2023 Diagnostician : Jonathan Hester **CAROLINA SUNROCK** PO BOX 25 BUTNER, NC

Test Package : CONST (Additional Tests: FuelDilution, Glycol, PercentFuel, PrtCount, TBN) Contact: Leigh Dennis rdennis@thesunrockgroup.com 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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US 27509