

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

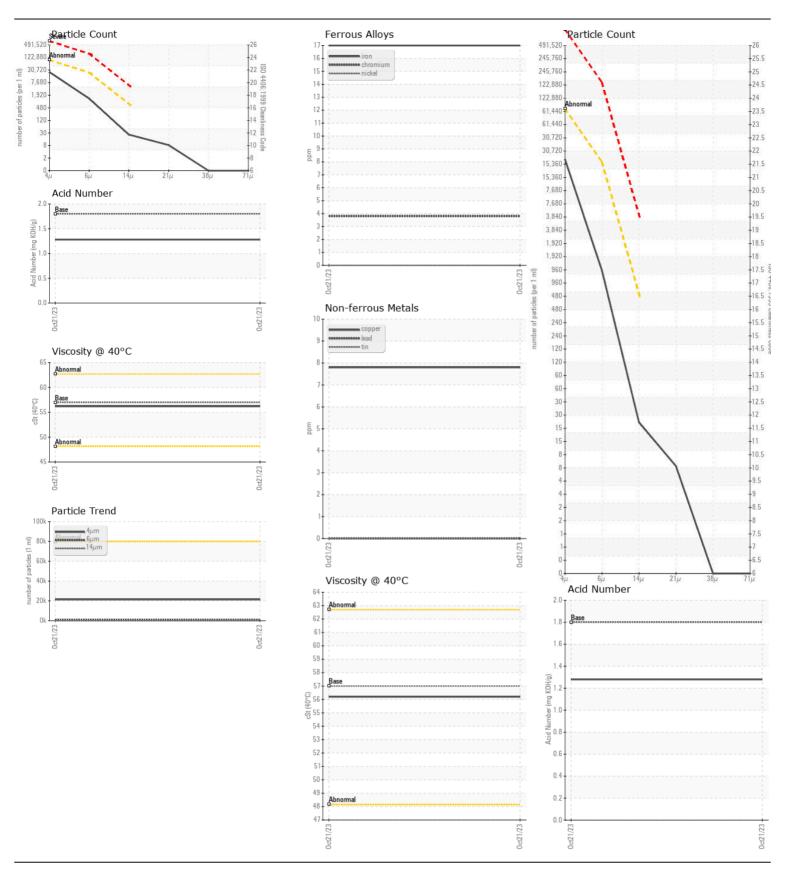


JOHN DEERE 300DII 513 (S/N 1DW300DXJFE667370)

Hydraulic System

JOHN DEERE HY-GARD HYD/TRANS (21 GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		RO05993617		
	Sample Date		Client Info		21 Oct 2023		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		1665		
	Filter Age	hrs	Client Info		1665		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>23	17		
WEAT	Chromium	ppm	ASTM D5185m		4		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>9	2		
	Lead	ppm	ASTM D5185m	>28	0		
	Copper	ppm	ASTM D5185m	>51	8		
	Tin	ppm	ASTM D5185m	>5	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	nnm	ASTM D5185m	. 21	10		
	Potassium	ppm	ASTM D5185m		2		
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	Water	ррпп	WC Method		NEG		
	Particles >4µm		ASTM D7647		21410		
	Particles >6µm		ASTM D7647		1166		
	Particles >14µm		ASTM D7647		22		
	Particles >21μm		ASTM D7647		7		
	Particles >38µm		ASTM D7647		0		
	Particles >71μm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)		22/17/12		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.075	NEG		
FLUID CONDITION	Cadius		ACTM DE40E	. 04	Δ		
	Sodium	ppm	ASTM D5185m		4		
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		6		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m ASTM D5185m	U	<1		
	Manganese Magnesium	ppm	ASTM D5185m	1/15	<1 84		
	Calcium	ppm	ASTM D5165III		2943		
	Phosphorus	ppm	ASTM D5185m		958		
	Zinc	ppm ppm	ASTM D5185m		1121		
	Sulfur	ppm	ASTM D5185m	10-10	3141		
	Acid Number (AN)	mg KOH/g	ASTM D3103111	1.8	1.28		
	Visc @ 40°C	cSt	ASTM D445		56.2		
	1100 @ 10 0	001	.101111 01170	37.0	00.2		





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 05993617 Unique Number: 10716279

: RO05993617 Test Package : MOB 2

Received **Tested** Diagnosed

: 30 Oct 2023 : 01 Nov 2023

: 01 Nov 2023 - Wes Davis

BIG 4 INC 301 WORTH ST HEMPHILL, TX US 75948 Contact: JODIE MCGEE jodie.mcgee@big4inc.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.

T: (936)275-7532 F: (409)787-2071 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)