

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

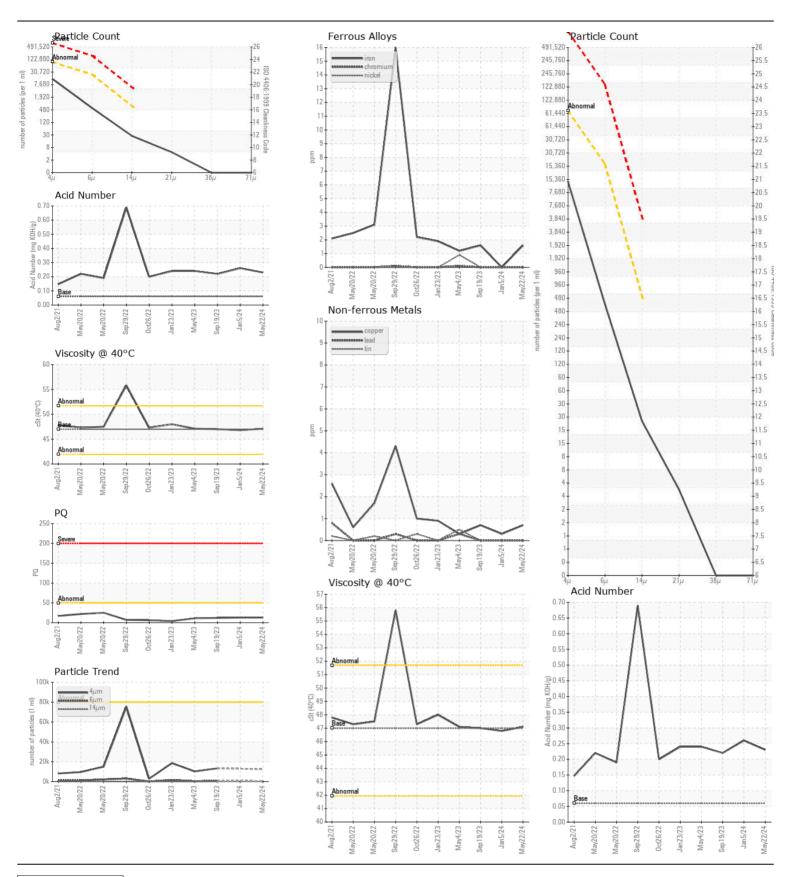


JOHN DEERE 210G 1FF210GXCMF529131

Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (--- GAL)

HITACHI HI DHAULIC SUPEN I	-/	GAL					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0214970		JR0188688
	Sample Date		Client Info		22 May 2024	05 Jan 2024	19 Sep 2023
	Machine Age	hrs	Client Info		4264	4264	3648
	Oil Age	hrs	Client Info		1953	2569	2610
	Filter Age	hrs	Client Info		0	0	0 Nat Obasas
	Oil Changed Filter Changed		Client Info		N/A N/A	Not Changd Changed	Not Changd
	Sample Status		Chefft iiilo		NORMAL	ABNORMAL	NORMAL
WEAR						40	
WEAR	PQ		ASTM D8184		13	13	12
All component wear rates are normal.	Iron	ppm	ASTM D5185m		2	0	2
	Chromium	ppm	ASTM D5185m		0	0	0
	Nickel Titanium	ppm	ASTM D5185m	>5	0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m ASTM D5185m	. 0	<1 0	0	<1
	Lead	ppm	ASTM D5185m		0	0	0
		ppm	ASTM D5185m		<1	<1	<1
	Copper	ppm	ASTM D5185m		0	0	0
	Vanadium	ppm	ASTM D5185m	70	0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
<u> </u>							
CONTAMINATION	Silicon	ppm	ASTM D5185m	>11	<1	1	<1
	Potassium	ppm	ASTM D5185m	>20	0	<1	<1
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.	Water		WC Method	>0.075	NEG	NEG	NEG
	Particles >4µm		ASTM D7647	>80000	12608		13368
	Particles >6µm		ASTM D7647		509		909
	Particles >14μm		ASTM D7647	>640	24		51
	Particles >21μm		ASTM D7647		4		9
	Particles >38μm		ASTM D7647		0		0
	Particles >71μm		ASTM D7647		0		0
	Oil Cleanliness		ISO 4406 (c)		21/16/12		21/17/13
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	▲ MODER	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	>0.075	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>21	0	0	0
	Boron	ppm	ASTM D5185m		0	0	0
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		0	0	0
	Manganese	ppm	ASTM D5185m		0	<1	0
	Magnesium	ppm	ASTM D5185m		0	0	<1
	Calcium	ppm	ASTM D5185m		0	8	1
	Phosphorus	ppm	ASTM D5185m		456	460	437
	Zinc	ppm	ASTM D5185m		0	0	4
	Sulfur	ppm	ASTM D5185m		104	113	86
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.23	0.26	0.22
	Visc @ 40°C	cSt	ASTM D445	47	47.1	46.8	47.0





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0214970 **Lab Number** : 06190374

Unique Number : 11047126

Received **Tested** Diagnosed Test Package : CONST (Additional Tests: PQ)

: 24 May 2024 : 29 May 2024

: 29 May 2024 - Don Baldridge

JRE - CHARLOTTE 9550 STATESVILLE ROAD CHARLOTTE, NC

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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)