WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



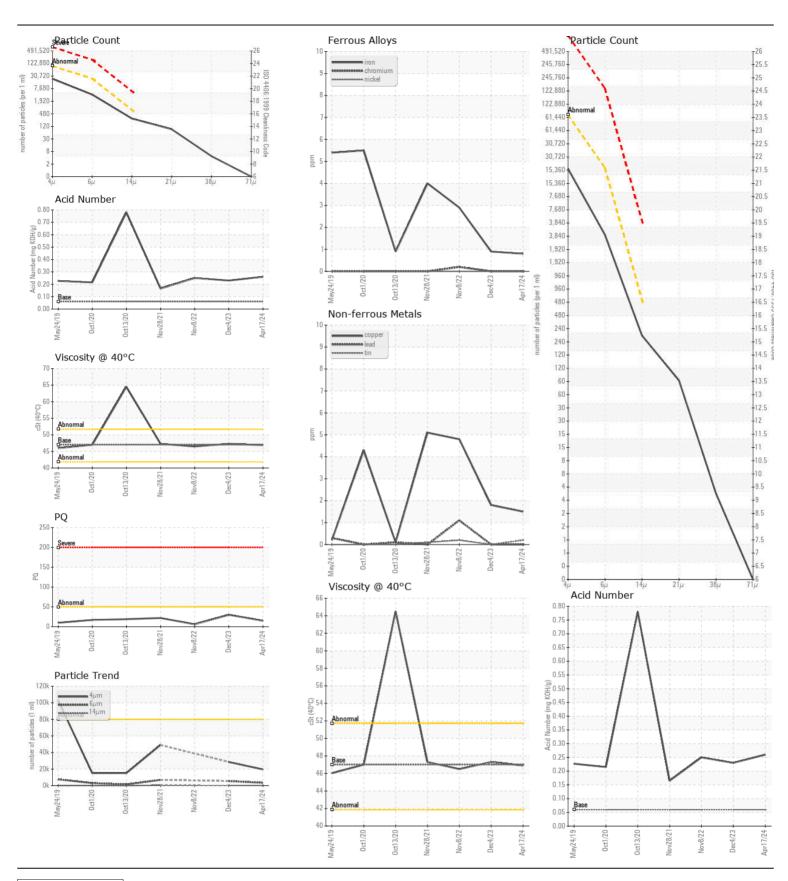
[W66274]

## **JOHN DEERE 210G 1FF210GXEJF526174**

**Hydraulic System** 

HITACHI HYDRAULIC SUPER EX 46HN (20 GAL)

HITACHI HYDRAULIC SUPER EX 46HN (20 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0205502	JR0188951	JR0150198
Resample at the next service interval to monitor. ( Customer Sample Comment: W66274)	Sample Date		Client Info		17 Apr 2024	04 Dec 2023	08 Nov 2022
	Machine Age	hrs	Client Info		2970	2574	2096
	Oil Age	hrs	Client Info		2492	478	500
	Filter Age	hrs	Client Info		0	0	500
	Oil Changed		Client Info		Not Changd	Not Changd	Changed
	Filter Changed		Client Info		Changed	Not Changd	Changed
	Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR  All component wear rates are normal.	PQ		ASTM D8184	>50	15	30	6
	Iron	ppm	ASTM D5185m	>32	<1	<1	3
	Chromium	ppm	ASTM D5185m	>9	0	0	<1
	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m		<1	0	<1
	Lead	ppm	ASTM D5185m		0	0	1
	Copper	ppm	ASTM D5185m		2	2	5
	Tin	ppm	ASTM D5185m	>5	<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>11	1	1	2
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	1	0	<1
	Water		WC Method	>0.075	NEG	NEG	NEG
	Particles >4µm		ASTM D7647	>80000	19649	28480	
	Particles >6µm		ASTM D7647		3471	5499	
	Particles >14μm		ASTM D7647		249	280	
	Particles >21μm		ASTM D7647		77	63	
	Particles >38µm		ASTM D7647		4	2	
	Particles >71μm		ASTM D7647		0	0	
	Oil Cleanliness		ISO 4406 (c)		21/19/15	22/20/15	
	Silt Debris	scalar	*Visual *Visual	NONE	NONE	NONE NONE	NONE MODER
	Sand/Dirt	scalar scalar	*Visual	NONE NONE	LIGHT NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.075	NEG	NEG	NEG
			vioudi				1120
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>21	2	<1	0
The Abbit of the Control of the Cont	Boron	ppm	ASTM D5185m		0	0	2
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	2
	Molybdenum	ppm	ASTM D5185m		0	0	0
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		2	0	<1
	Calcium	ppm	ASTM D5185m	005	51 	46	105
	Phosphorus	ppm	ASTM D5185m		577	579	476
	Zinc	ppm	ASTM D5185m		54	53	<u>4</u> 90
	Sulfur	ppm	ASTM D5185m		236	171	809
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.26	0.23	0.25
	Visc @ 40°C	cSt	ASTM D445	4/	46.9	47.3	46.5





Certificate L2367

Laboratory Sample No. Unique Number: 10989682

: JR0205502 **Lab Number** : 06154259

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Apr 2024 **Tested** 

: 23 Apr 2024 Diagnosed Test Package : CONST ( Additional Tests: PQ )

: 23 Apr 2024 - Don Baldridge

JRE - CHARLOTTE 9550 STATESVILLE ROAD CHARLOTTE, NC US 28269

Contact: CHARLOTTE SHOP myoung@jamesriverequipment.com

T: (704)597-0211 F: (704)596-6198 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. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.