

WEAR CONTAMINATION **FLUID CONDITION**

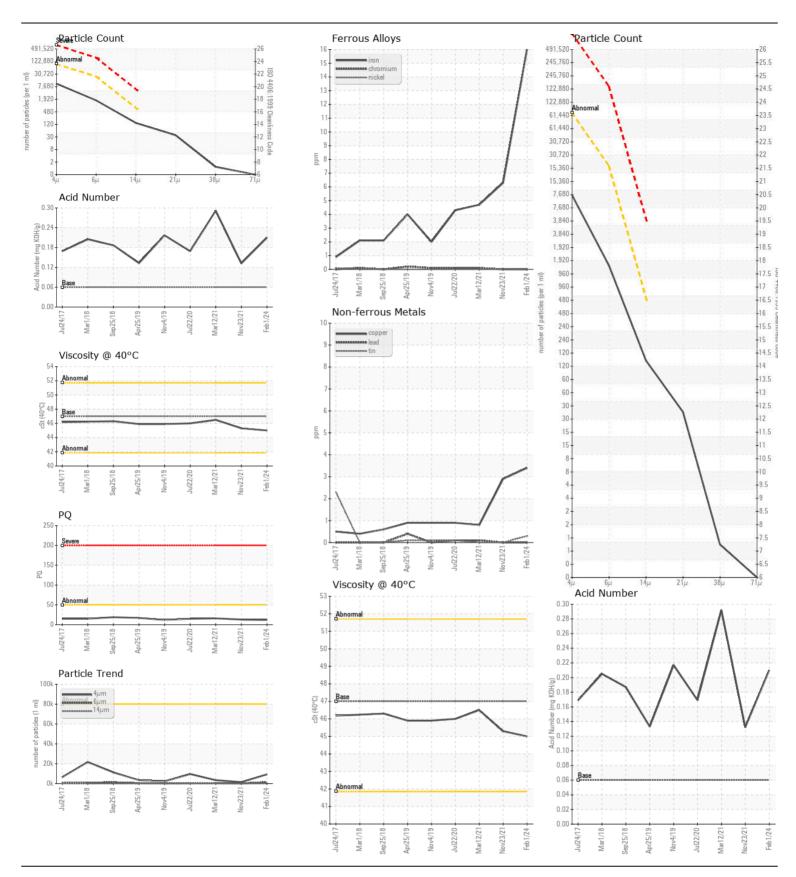
NORMAL NORMAL NORMAL



JOHN DEERE 210G 1FF210GXVFF523504

Component Hydraulic System

HITACHI HYDRAULIC SUPER I		<u> </u>					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0202871	JR0113324	JR008181
Resample at the next service interval to monitor.	Sample Date		Client Info		01 Feb 2024	23 Nov 2021	12 Mar 202
	Machine Age	hrs	Client Info		6847	5523	4989
	Oil Age	hrs	Client Info		6313	4989	0
	Filter Age	hrs	Client Info		0	4989	0
	Oil Changed		Client Info		Not Changd	Not Changd	Changed
	Filter Changed		Client Info		Changed	Not Changd	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	PQ		ASTM D8184	>50	12	13	16
	Iron	ppm	ASTM D5185m	>32	16	6	5
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>9	0	0	<1
	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>9	2	<1	0
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m	>50	3	3	<1
	Tin	ppm	ASTM D5185m	>5	<1	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>11	1	0	0
	Potassium	ppm	ASTM D5185m		<1	0	<1
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.	Water	ppiii	WC Method		NEG	NEG	NEG
	Particles >4µm		ASTM D7647		9335	1578	3510
	Particles >6µm		ASTM D7647		1475	246	512
	Particles >14µm		ASTM D7647		123	17	40
	Particles >21µm		ASTM D7647		32	4	11
	Particles >38µm		ASTM D7647		1	0	0
	Particles >71µm		ASTM D7647		0	0	0
	Oil Cleanliness		ISO 4406 (c)		20/18/14	18/15/11	19/16/1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	NEG
<u></u>	Lindisined Water		Visuai	20.073			INLO
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>21	<1	0	0
TI AND 11	Boron	ppm	ASTM D5185m		0	<1	1
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m		0	<1	0
	Manganese	ppm	ASTM D5185m		<1	0	0
	Magnesium	ppm	ASTM D5185m		<1	0	0
	Calcium	ppm	ASTM D5185m		17	41	0
	Phosphorus	ppm	ASTM D5185m	827	397	355	475
	Zinc	ppm	ASTM D5185m	0	52	30	0
	Sulfur	ppm	ASTM D5185m	13	112	166	34
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.21	0.132	0.292
	Visc @ 40°C	cSt	ASTM D445		45.0	45.3	46.5





Unique Number : 10874629

Laboratory Sample No. Lab Number

: JR0202871 : 06087184

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

: 13 Feb 2024 Tested : 14 Feb 2024 Diagnosed

: 14 Feb 2024 - Angela Borella

JRE - GARNER 4161 AUBURN CHURCH RD GARNER, NC

US 27529 Contact: RALEIGH SHOP

Test Package : CONST (Additional Tests: PQ) To discuss this sample report, contact Customer Service at 1-800-237-1369.

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* - 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) F: (919)779-5432

Submitted By: Steven Bass