

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

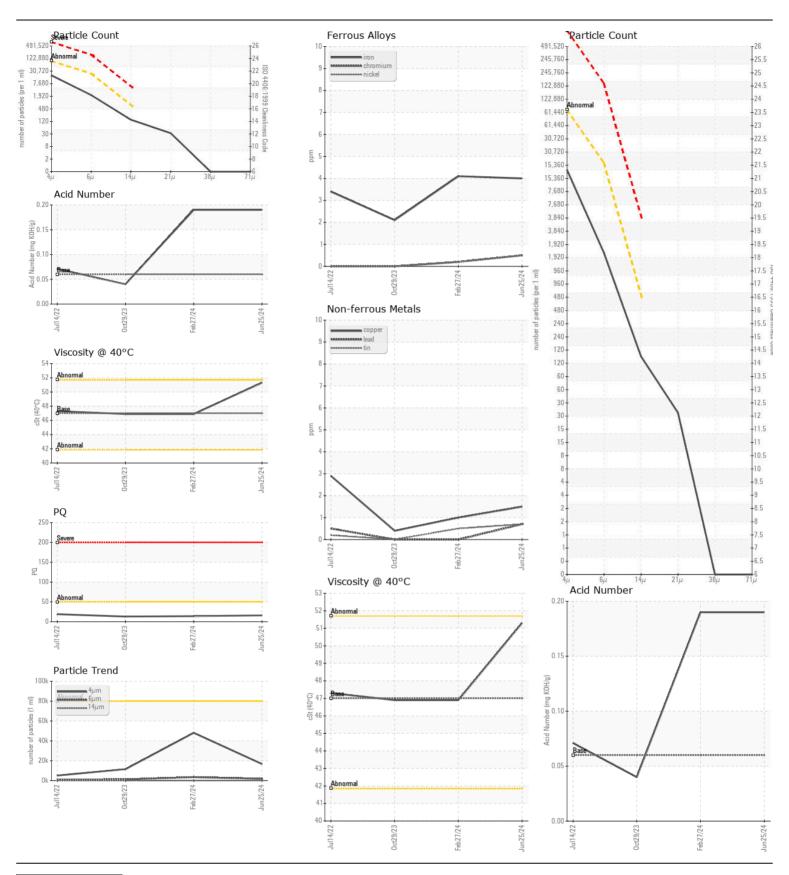


JOHN DEERE 210G 1FF210GXHMF529661

Hydraulic System

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0222543	JR0202737	JR0190870
	Sample Date	laua	Client Info		25 Jun 2024	27 Feb 2024	29 Oct 202
	Machine Age Oil Age	hrs	Client Info		3002 3002	2500 2500	2058 2058
	Filter Age	hrs hrs	Client Info		0	0	0
	Oil Changed	1115	Client Info		Not Changd	Not Changd	Not Change
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	PQ		ASTM D8184	>50	16	14	13
	Iron	ppm	ASTM D5185m	>32	4	4	2
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>9	<1	<1	0
	Nickel	ppm	ASTM D5185m	>5	<1	<1	0
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m		2	<1	<1
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m		2	1	<1
	Tin	ppm	ASTM D5185m	>5	<1	<1	0
	Vanadium	ppm	ASTM D5185m	NONE	<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
<u></u>	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		2	1	<1
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		1	<1	<1
	Water		WC Method		NEG	NEG	NEG
	Particles >4µm		ASTM D7647		16731	48118	11531
	Particles >6µm		ASTM D7647		1898	3532	1294
	Particles >14μm Particles >21μm		ASTM D7647 ASTM D7647		127 29	53 14	54 10
	Particles >38µm		ASTM D7647		0	0	0
	Particles >71µm		ASTM D7647		0	0	0
	Oil Cleanliness		ISO 4406 (c)		21/18/14	23/19/13	21/17/1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	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
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		1	0	0
	Molybdenum	ppm	ASTM D5185m		<1	<1	0
	Manganese	ppm	ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m		<1	<1	<1
	Calcium	ppm	ASTM D5185m	005	0	0	1
	Phosphorus	ppm	ASTM D5185m		472	495	476
	Zinc	ppm	ASTM D5185m		9	12	0
	Sulfur	ppm mg KOU/g	ASTM D5185m ASTM D8045		131	88	122
	Acid Number (AN)	mg KOH/g			0.19	0.19	0.04
	Visc @ 40°C	cSt	ASTM D445	47	51.3	46.9	46.9





Certificate L2367

Laboratory Unique Number : 11101611

: JR0222543 Sample No. : 06223414 Lab Number

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

: 01 Jul 2024 : 01 Jul 2024 - Don Baldridge Diagnosed Test Package : CONST (Additional Tests: PQ)

: 28 Jun 2024

JRE - GARNER 4161 AUBURN CHURCH RD GARNER, NC

US 27529 Contact: RALEIGH SHOP sean.betts@jamesriverequipment.com;catherine.anastasio@wearcheck.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: (919)614-2260 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)779-5432