

Area

TION

## WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL



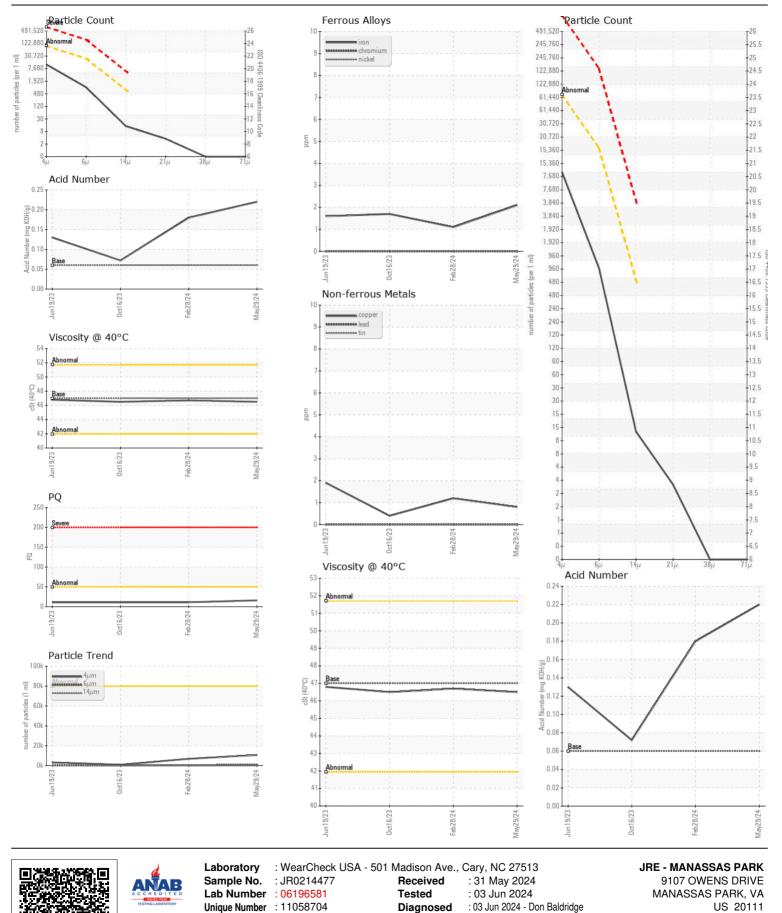
## [05W46759] JOHN DEERE 210G 1FF210GXJNF530402

Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (120 QTS)

RECOMMENDATION	Test	UOM
	Sample Number	
Resample at the next service interval to monitor.	Sample Date	
	Machine Age	hrs
	Oil Age	hrs
	Filter Age	hrs
	Oil Changed	
	Filter Changed	
	Sample Status	
WEAR	PQ	
	Iron	ppm
All component wear rates are normal.	Chromium	ppm
	Nickel	ppm
	Titanium	ppm
	Silver	ppm
	Aluminum	ppm
	Lead	ppm
	Copper	ppm
	Tin	ppm
	Vanadium	ppm
	White Metal	scalar
	Yellow Metal	scalar
CONTAMINATION	Silicon	ppm
	Potassium	ppm
The amount and size of particulates present in the system are	Water	
acceptable. There is no indication of any contamination in the oil.	Particles >4µm	
	Particles >6µm	
	Particles >14µm	
	Particles >21µm	
	Particles >38µm	
	Particles >71µm	
	Oil Cleanliness	
	Silt	scalar
	Debris	scalar
	Sand/Dirt	scalar
	Appearance	scalar
	Odor	scalar
	Emulsified Water	scalar
FLUID CONDITION	Sodium	ppm
The AN level is eccenteble for this fluid. The condition of the off in	Boron	ppm
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm
suitable for further service.	Molybdenum	ppm

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0214477	JR0208588	JR0190010
Sample Date		Client Info		29 May 2024	28 Feb 2024	16 Oct 2023
Machine Age	hrs	Client Info		2035	1478	962
Oil Age	hrs	Client Info		2035	1478	962
Filter Age	hrs	Client Info		1000	0	962
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
PQ		ASTM D8184	>50	16	11	11
Iron	ppm	ASTM D5185m	>32	2	1	2
Chromium	ppm	ASTM D5185m	>9	0	0	0
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	0	0	0
Lead	ppm	ASTM D5185m	>28	0	0	0
Copper	ppm	ASTM D5185m	>50	<1	1	<1
Tin	ppm	ASTM D5185m	>5	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>11	<1	<1	<1
Potassium	ppm	ASTM D5185m	>20	<1	0	2
Water	1-1-	WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	10652	6873	904
Particles >6µm		ASTM D7647	>20000	864	401	225
Particles >14µm		ASTM D7647	>640	12	8	20
Particles >21µm		ASTM D7647	>160	3	1	5
Particles >38µm		ASTM D7647	>40	0	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	21/17/11	20/16/10	17/15/11
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	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water scalar *Visual >0.075 NEG NEG NEG						NEG
Sodium	ppm	ASTM D5185m	>21	<1	2	<1
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	3
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		2	0	0
Calcium	ppm	ASTM D5185m		6	4	2
Phosphorus	ppm	ASTM D5185m	827	516	517	538
Zinc	ppm	ASTM D5185m	0	24	26	37
Sulfur	ppm	ASTM D5185m	13	108	95	117
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.22	0.18	0.072
Visc @ 40°C	cSt	ASTM D445	47	46.5	46.7	46.5



Test Package : CONST (Additional Tests: PQ) Contact: TECHNICIAN ACCOUNT Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. catherine.anastasio@wearcheck.com \* - 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: (703)631-4715

Submitted By: TECHNICIAN ACCOUNT Page 2 of 2

T: