

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



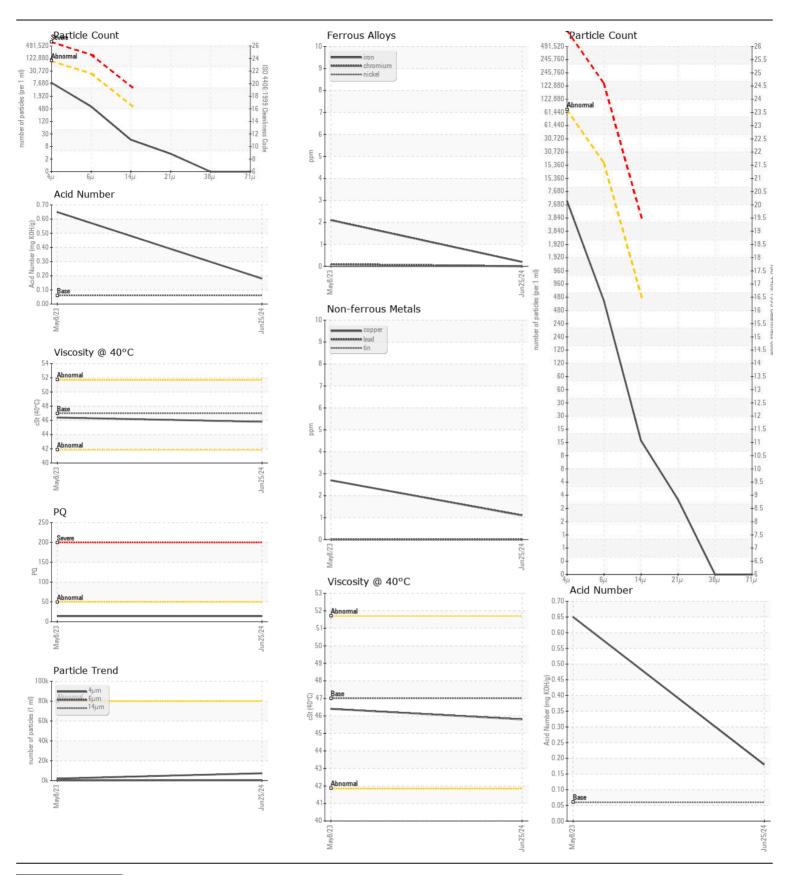
## JAMES NOAH

## JOHN DEERE 210GLC JOHN DEERE 210 GLC (S/N 1FF210GXENF530554)

**Tank Return Hydraulic System** 

HITACHI HYDRAULIC SUPER EX 46HN (40 GAL)

HITACHI HYDRAULIC SUPER I	EX 46HN (40	GAL	)				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WE0003546	WE0003411	
Resample at the next service interval to monitor.	Sample Date		Client Info		25 Jun 2024	08 May 2023	
	Machine Age	hrs	Client Info		1019	498	
	Oil Age	hrs	Client Info		1019	498	
	Filter Age	hrs	Client Info		1019	498	
	Oil Changed		Client Info		Not Changd	N/A	
	Filter Changed		Client Info		Not Changd	N/A	
	Sample Status				NORMAL	NORMAL	
WEAR	PQ		ASTM D8184	>50	14	14	
	Iron	ppm	ASTM D5185m	>32	<1	2	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	<1	
	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m	, 0	0	0	
	Silver	ppm	ASTM D5185m		0	<1	
	Aluminum	ppm	ASTM D5185m	>9	0	0	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		1	3	
	Tin	ppm	ASTM D5185m		0	0	
	Vanadium	ppm	ASTM D5185m	, 0	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>11	<1	0	
	Potassium	ppm	ASTM D5185m		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	le le	WC Method		NEG	NEG	
	Particles >4µm		ASTM D7647		7407	2141	
	Particles >6µm		ASTM D7647		540	307	
	Particles >14µm		ASTM D7647	>640	14	13	
	Particles >21µm		ASTM D7647		3	3	
	Particles >38µm		ASTM D7647	>40	0	0	
	Particles >71µm		ASTM D7647		0	0	
	Oil Cleanliness		ISO 4406 (c)		20/16/11	18/15/11	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	<b>Emulsified Water</b>		*Visual	>0.075	NEG	NEG	
TILLID CONDITION						,	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>21	<1	<1	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		0	0	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		0	<1	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m		0	1	
	Calcium	ppm	ASTM D5185m		0	4	
	Phosphorus	ppm	ASTM D5185m		521	583	
	Zinc	ppm	ASTM D5185m		24	30	
	Sulfur	ppm	ASTM D5185m		83	147	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.18	0.65	
	Visc @ 40°C	cSt	ASTM D445	47	45.8	46.4	





Certificate L2367

Laboratory Sample No.

Lab Number : 06222273

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WE0003546

Received **Tested** Diagnosed : 27 Jun 2024

: 28 Jun 2024

: 28 Jun 2024 - Don Baldridge

Unique Number : 11100470 Test Package : CONST ( Additional Tests: PQ )

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)

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