WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



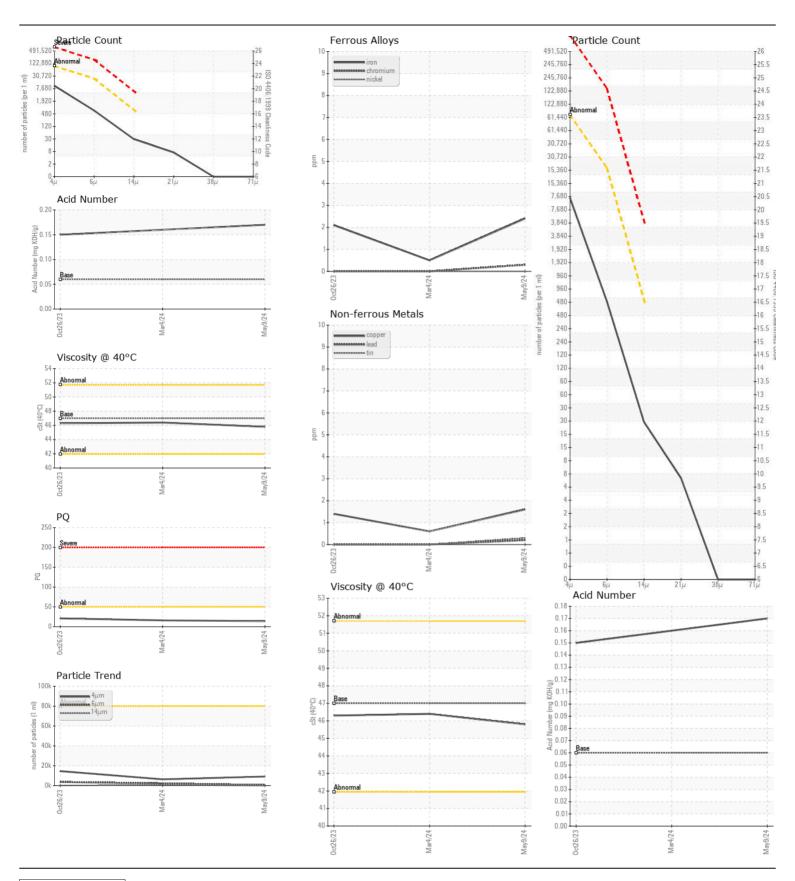
[W66809]

JOHN DEERE 210G 1FF210GXJNF530688

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
Resample at the next service interval to monitor. (Customer Sample Comment: W66809)	Sample Number		Client Info		JR0215065	JR0206502	
	Sample Date		Client Info		09 May 2024	04 Mar 2024	26 Oct 2023
	Machine Age	hrs	Client Info		1467	1041	663
	Oil Age	hrs	Client Info		1467	1041	663
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
	Filter Changed		Client Info		Not Changd	Changed	Not Changd
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR All component wear rates are normal.	PQ		ASTM D8184	>50	14	16	21
	Iron	ppm	ASTM D5185m	>32	2	<1	2
	Chromium	ppm	ASTM D5185m	>9	<1	0	0
	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>9	2	0	0
	Lead	ppm	ASTM D5185m	>28	<1	0	0
	Copper	ppm	ASTM D5185m	>50	2	<1	1
	Tin	ppm	ASTM D5185m	>5	<1	0	0
	Vanadium	ppm	ASTM D5185m		<1	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	<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	>20	2	0	0
	Water		WC Method	>0.075	NEG	NEG	NEG
	Particles >4µm		ASTM D7647	>80000	9162	6347	14625
	Particles >6µm		ASTM D7647		605	2308	3687
	Particles >14μm		ASTM D7647		26	532	156
	Particles >21μm		ASTM D7647		6	220	34
	Particles >38μm		ASTM D7647		0	13	0
	Particles >71μm		ASTM D7647		0	1	0
	Oil Cleanliness		ISO 4406 (c)		20/16/12	20/18/16	21/19/14
	Silt Debris	scalar	*Visual	NONE	NONE	NONE NONE	NONE
	Sand/Dirt	scalar scalar	*Visual *Visual	NONE NONE	NONE 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
							1120
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>21	0	0	<1
T. AMI. 1:	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		0	0	0
	Molybdenum	ppm	ASTM D5185m		0	0	0
	Manganese	ppm	ASTM D5185m		0	<1	0
	Magnesium	ppm	ASTM D5185m		<1	0	0
	Calcium	ppm	ASTM D5185m		2	<1	0
	Phosphorus	ppm	ASTM D5185m		522	509	547
	Zinc	ppm	ASTM D5185m		20	28	25
	Sulfur	ppm	ASTM D5185m		43	94	59
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.17	0.16	0.15
	Visc @ 40°C	cSt	ASTM D445	4/	45.8	46.4	46.3





Certificate L2367

Laboratory Sample No. **Lab Number**

: JR0215065 : 06175369 Unique Number : 11021422

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

Diagnosed Test Package: CONST (Additional Tests: FT-IR, KV100, PQ)

: 10 May 2024 : 14 May 2024

: 14 May 2024 - Don Baldridge

CARLTON'S BACKHOE 9550 STATESVILLE ROAD CHARLOTTE, NC US 28269 Contact: LEO

T: (704)547-0211

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.

F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Submitted By: Mike Young - CHARLOTTE SHOP