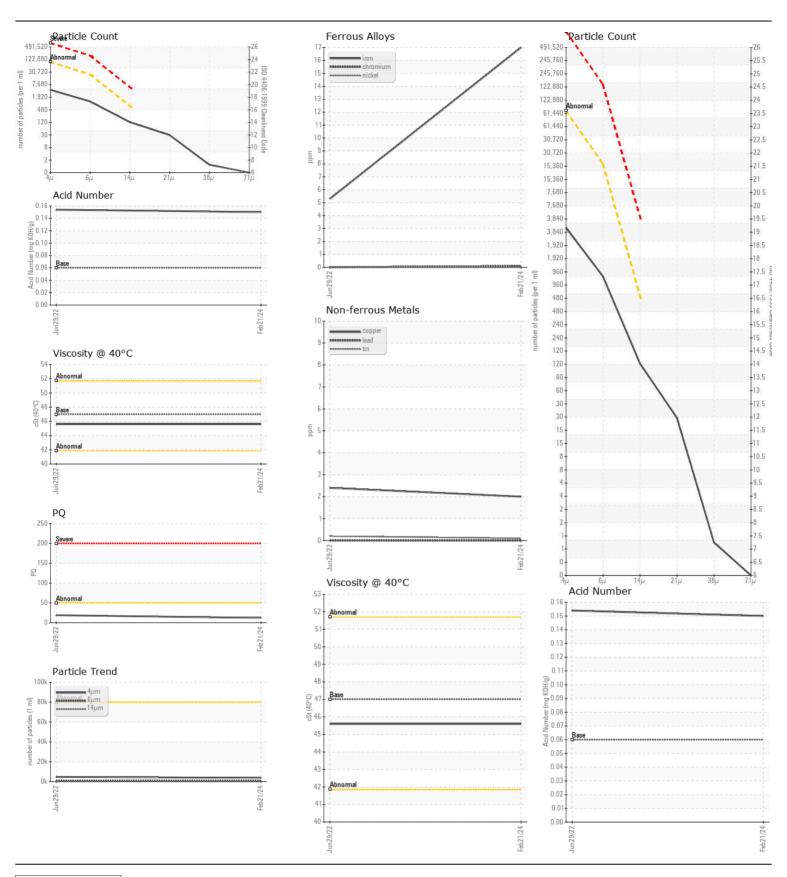
**WEAR CONTAMINATION FLUID CONDITION** 

**NORMAL NORMAL** NORMAL

## **JOHN DEERE 245G 1FF245GXEMF802020**

Component
Hydraulic System
Fluid

HITACHI HYDRAULIC SUPER EX 46HN ( G/	<u> </u>						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0205222	JR0118124	,
Resample at the next service interval to monitor.	Sample Date		Client Info		21 Feb 2024	29 Jun 2022	
	Machine Age	hrs	Client Info		3138	1380	
	Oil Age	hrs	Client Info		0	1380	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	Not Changd	
	Filter Changed		Client Info		N/A	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	PQ		ASTM D8184	>50	12	19	
	Iron	ppm	ASTM D5185m	>32	17	5	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>9	<1	0	
	Nickel	ppm	ASTM D5185m	>5	0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>9	1	<1	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		2	2	
	Tin	ppm	ASTM D5185m		<1	<1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>11	2	<1	
	Potassium	ppm	ASTM D5185m	>20	2	<1	
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.	Water		WC Method	>0.075	NEG	NEG	
	Particles >4µm		ASTM D7647	>80000	3782	4811	
	Particles >6µm		ASTM D7647		1052	1067	
	Particles >14µm		ASTM D7647	>640	108	83	
	Particles >21µm		ASTM D7647	>160	26	14	
	Particles >38µm		ASTM D7647	>40	1	1	
	Particles >71μm		ASTM D7647		0	0	
	Oil Cleanliness		ISO 4406 (c)		19/17/14	19/17/14	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	LIGHT	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.075	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m	>21	1	<1	
	Boron	ppm	ASTM D5185m		<1	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	
	Molybdenum	ppm	ASTM D5185m		0	0	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		3	0	
	Calcium	ppm	ASTM D5185m		14	3	
	Phosphorus	ppm	ASTM D5185m	827	476	553	
	Zinc	ppm	ASTM D5185m		53	41	
	Sulfur	ppm	ASTM D5185m		154	233	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.15	0.154	
	Visc @ 40°C	cSt	ASTM D445		45.6	45.6	
	*100 @ +0 O	001	עדדם ואוויטו,	17	70.0	10.0	





Certificate L2367

Report Id: JAMGRE [WUSCAR] 06097622 (Generated: 02/25/2024 09:54:29) Rev: 1

Laboratory Sample No. Lab Number

: JR0205222 : 06097622 Unique Number : 10890475

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

Diagnosed Test Package : CONST ( Additional Tests: PQ )

: 23 Feb 2024 : 25 Feb 2024 - Don Baldridge

: 22 Feb 2024

411 SOUTH REGIONAL ROAD GREENSBORO, NC

Contact: NICK GALLAHER NGALLAHER@JRENET.COM T: (336)668-2762

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) F: (336)665-9556

JRE - GREENSBORO

US 27409