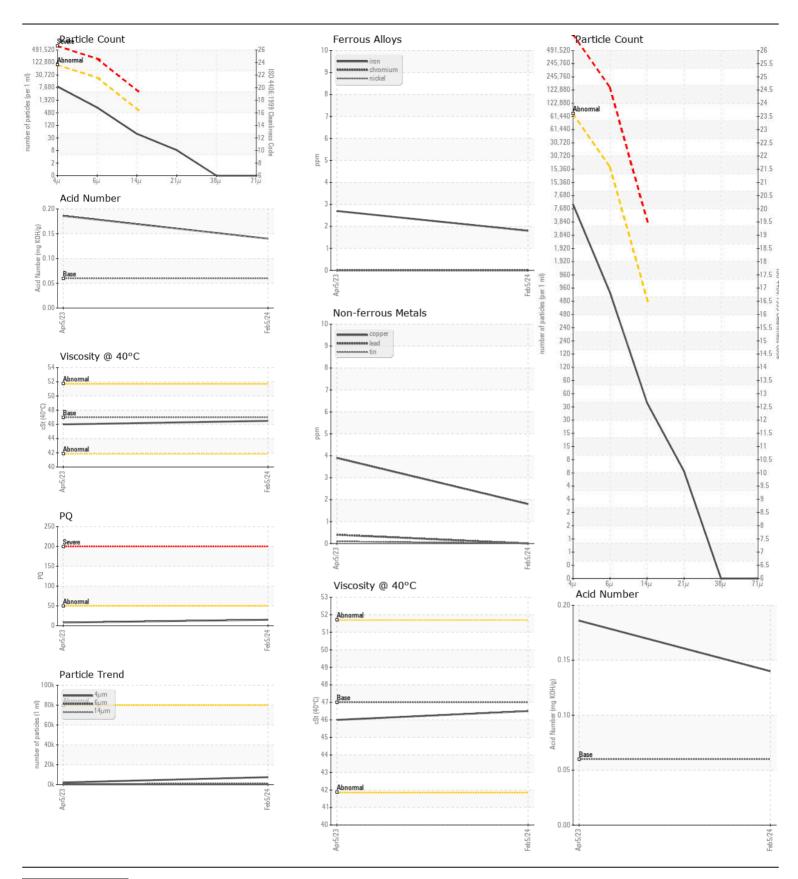
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

JOHN DEERE 300G 1FF300GXHNF732154

Component **Hydraulic System** Fluid

HITACHI HYDRAULIC SUPER EX 46HN (GAI	- /						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOGRAPHON	Sample Number		Client Info		JR0197372	JR0167836	
Resample at the next service interval to monitor.	Sample Date		Client Info		05 Feb 2024	05 Apr 2023	
	Machine Age	hrs	Client Info		1252	542	
	Oil Age	hrs	Client Info		1252	542	
	Filter Age	hrs	Client Info		0	542	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Changed	Not Changd	
	Sample Status				NORMAL	NORMAL	
WEAR	PQ		ASTM D8184	>50	15	8	
	Iron	ppm	ASTM D5185m	>32	2	3	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	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	0	
	Lead	ppm	ASTM D5185m	>28	0	<1	
	Copper	ppm	ASTM D5185m	>50	2	4	
	Tin	ppm	ASTM D5185m	>5	0	<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	<1	<1	
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.	Potassium	ppm	ASTM D5185m	>20	<1	<1	
	Water		WC Method	>0.075	NEG	NEG	
	Particles >4µm		ASTM D7647	>80000	7536	2228	
	Particles >6µm		ASTM D7647	>20000	750	479	
	Particles >14µm		ASTM D7647	>640	42	20	
	Particles >21µm		ASTM D7647	>160	7	3	
	Particles >38µm		ASTM D7647	>40	0	0	
	Particles >71µm		ASTM D7647		0	0	
	Oil Cleanliness		ISO 4406 (c)	>23/21/16	20/17/13	18/16/11	
	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	
	Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m	>21	<1	0	
The AN level is acceptable for this fluid. The condition of the cities	Boron	ppm	ASTM D5185m		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	
	Molybdenum	ppm	ASTM D5185m		0	<1	
	Manganese	ppm	ASTM D5185m		<1	0	
	Magnesium	ppm	ASTM D5185m		0	<1	
	Calcium	ppm	ASTM D5185m		2	3	
	Phosphorus	ppm	ASTM D5185m		511	517	
	Zinc	ppm	ASTM D5185m		23	29	
	Sulfur	ppm	ASTM D5185m		81	94	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.14	0.186	
	Visc @ 40°C	cSt	ASTM D445	47	46.5	46.0	





Laboratory Sample No.

Lab Number : 06087186 Unique Number : 10874631

: JR0197372

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

Diagnosed Test Package : CONST (Additional Tests: PQ)

: 14 Feb 2024 : 14 Feb 2024 - Angela Borella

: 13 Feb 2024

JRE - GARNER 4161 AUBURN CHURCH RD GARNER, NC

US 27529 Contact: RALEIGH SHOP

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. sean.betts@jamesriverequipment.com;catherine.anastasio@wearcheck.com T: (919)614-2260

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (919)779-5432 Submitted By: Steven Bass