WEAR CONTAMINATION **FLUID CONDITION**

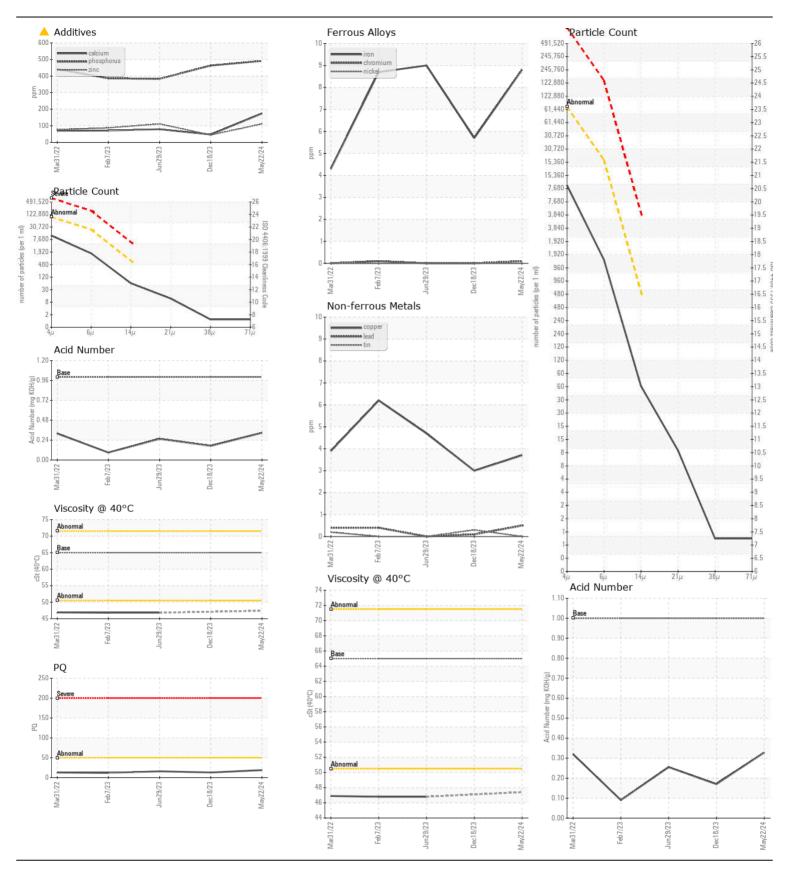
NORMAL NORMAL ABNORMAL

[46990]

JOHN DEERE 50G 1FF050GXTMH293996

Hydraulic System

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0214443	JR0196181	JR0176249
Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil.	Sample Date		Client Info		22 May 2024	18 Dec 2023	29 Jun 202
	Machine Age	hrs	Client Info		2968	2430	1926
	Oil Age	hrs	Client Info		2464	504	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				ABNORMAL	NORMAL	ABNORMA
VEAR	PQ		ASTM D8184	>50	19	13	16
	Iron	ppm	ASTM D5185m	>32	9	6	9
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>9	<1	0	0
	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m	>9	<1	<1	<1
	Lead	ppm	ASTM D5185m	>28	<1	<1	0
	Copper	ppm	ASTM D5185m		4	3	5
	Tin	ppm	ASTM D5185m	>5	0	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>11	3	2	2
	Potassium	ppm	ASTM D5185m	>20	0	2	1
The amount and size of particulates present in the system are acceptable.	Water		WC Method	>0.075	NEG	NEG	NEG
	Particles >4µm		ASTM D7647	>80000	10303	18142	25174
	Particles >6µm		ASTM D7647	>20000	1463	4517	6424
	Particles >14μm		ASTM D7647	>640	54	308	296
	Particles >21μm		ASTM D7647		10	70	49
	Particles >38μm		ASTM D7647		1	1	1
	Particles >71μm		ASTM D7647		1	0	0
	Oil Cleanliness		ISO 4406 (c)		21/18/13	21/19/15	22/20/1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML NORML	NORML NORML	NORM
	Emulsified Water			>0.075	NEG	NEG	NEG
			Visuai				INLO
LUID CONDITION	Sodium	ppm	ASTM D5185m	>21	1	<1	2
Zinc level above manufacturer's recommendations. The AN level is acceptable for this fluid.	Boron	ppm	ASTM D5185m		2	4	10
	Barium	ppm	ASTM D5185m		0	0	15
	Molybdenum	ppm	ASTM D5185m		2	<1	3
	Manganese	ppm	ASTM D5185m		0	<1	0
	Magnesium	ppm	ASTM D5185m	0.7	10	13	37
	Calcium	ppm	ASTM D5185m		174	47	79
	Phosphorus	ppm	ASTM D5185m		491	463	383
	Zinc Sulfur	ppm		900	▲ 111 707	44 552	111
	Acid Number (AN)	ppm mg KOH/g	ASTM D5185m ASTM D8045	1.0	797 0.328	552 0.17	1260 0.255





Certificate L2367

Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0214443 : 06189709

Unique Number : 11046461

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received **Tested** Diagnosed Test Package : CONST (Additional Tests: PQ)

: 23 May 2024 : 25 May 2024

: 30 May 2024 - Jonathan Hester

US 20136 Contact: DANNY HUFF dhuff@bandssite.com T: (540)270-3203

B & S SITE DEVLEOPMENT

7800 PINEY BRANCH LANE

* - 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) BRISTOW, VA

F: (703)753-0605