**WEAR** CONTAMINATION **FLUID CONDITION** 

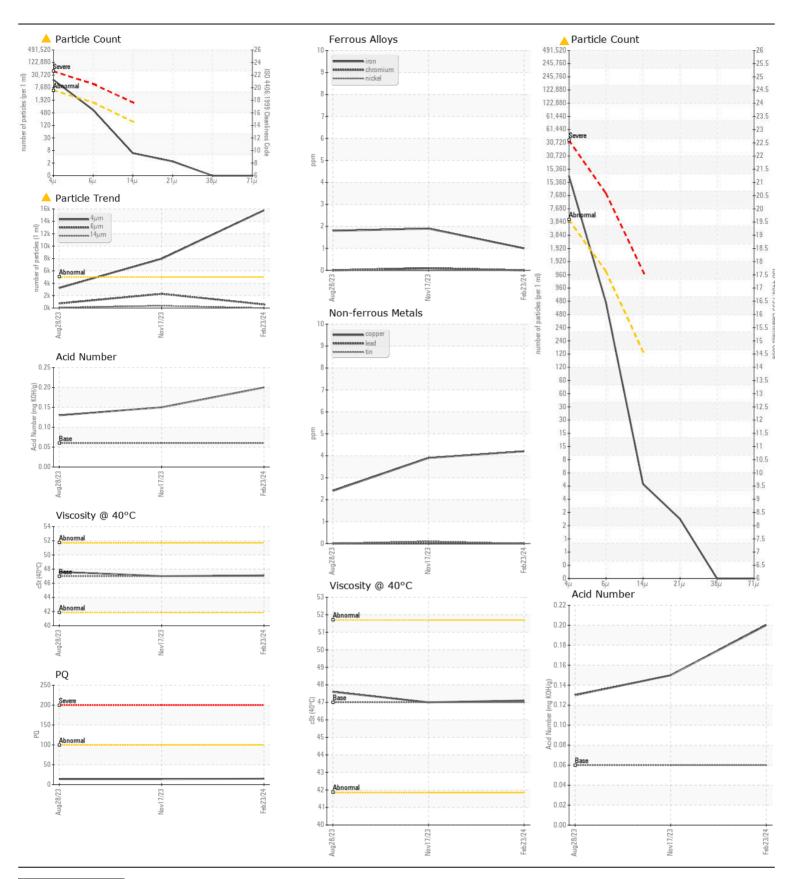
**NORMAL ABNORMAL NORMAL** 

[05W44993]

## **JOHN DEERE 000748**

Component Hydraulic System

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0203128	JR0192432	JR0183932
	Sample Date		Client Info		23 Feb 2024	17 Nov 2023	28 Aug 2023
	Machine Age	hrs	Client Info		1490	967	468
	Oil Age	hrs	Client Info		1490	967	0
	Filter Age	hrs	Client Info		523	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	Not Chango
	Filter Changed		Client Info		Not Changd	_	Not Chango
	Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR	PQ		ASTM D8184		15	14	14
WEAT	Iron	ppm	ASTM D5185m	>20	1	2	2
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	<1	0
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>10	0	0	3
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		4	4	2
	Tin	ppm	ASTM D5185m		0	<1	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	<1	<1	<1
There is a high amount of silt (particulates < 14 microns in size)	Potassium	ppm	ASTM D5185m		0	0	0
present in the oil.	Water		WC Method	>0.1	NEG	NEG A 7050	NEG
	Particles >4µm Particles >6µm		ASTM D7647 ASTM D7647		▲ 15769	▲ 7952 ▲ 2294	3227 735
	Particles >6µm		ASTM D7647		575 5	▲ 370	81
	Particles >21µm		ASTM D7647		2	▲ 94	25
	Particles >38µm		ASTM D7647		0	2	2
	Particles >30µm		ASTM D7647		0	0	0
	Oil Cleanliness		ISO 4406 (c)		<u> </u>	<u>\( \) 20/18/16</u>	19/17/14
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water			>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	<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	0
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		0	0	2
	Manganese	ppm	ASTM D5185m		0	0	0
	Magnesium	ppm	ASTM D5185m		0	0	<1
	Calcium	ppm	ASTM D5185m		20	29	<1
	Phosphorus	ppm	ASTM D5185m		497	522	570
	Zinc	ppm	ASTM D5185m		26	44	17
	Sulfur	ppm	ASTM D5185m	0.00	110	79	182
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.20	0.15	0.13
	Visc @ 40°C	cSt	ASTM D445	4/	47.1	47.0	47.6





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0203128 Lab Number : 06100062

Received Tested Unique Number : 10898292

Diagnosed

: 27 Feb 2024 : 27 Feb 2024 - Don Baldridge

: 26 Feb 2024

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)

**B & S SITE DEVLEOPMENT** 

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