

#### [W21912] Machine Id JOHN DEERE 6420 L06420H439088 Component Hydraulic System

# JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

### WEAR

The iron level is abnormal. All other component wear rates are normal.

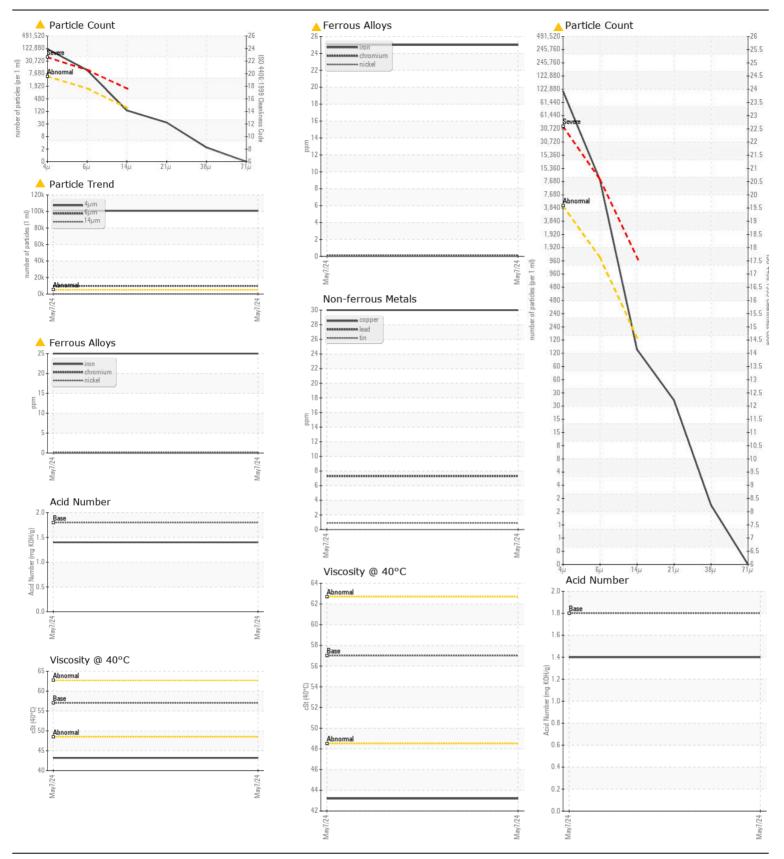
### CONTAMINATION

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

### FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0210862		
Sample Date		Client Info		07 May 2024		
Machine Age	hrs	Client Info		4612		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		Changed		
Sample Status				ABNORMAL		
PQ		ASTM D8184		21		
Iron	ppm	ASTM D5185m	>20	<u> </u>		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>10	1		
Lead	ppm	ASTM D5185m	>10	7		
Copper	ppm	ASTM D5185m	>75	30		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>20	7		
Potassium	ppm	ASTM D5185m	>20	1		
Water		WC Method	>0.1	NEG		
Particles >4µm		ASTM D7647	>5000	<u> </u>		
Particles >6µm		ASTM D7647	>1300	<b>4</b> 9841		
Particles >14µm		ASTM D7647	>160	117		
Particles >21µm		ASTM D7647	>40	31		
Particles >38µm		ASTM D7647	>10	2		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	LIGHT		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.1	NEG		
		40TH D=/05		•		
Sodium	ppm	ASTM D5185m	0	3		
Boron	ppm	ASTM D5185m		14		
Barium	ppm	ASTM D5185m	0	2		
Molybdenum	ppm	ASTM D5185m	0	0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		17		
Calcium	ppm	ASTM D5185m	3570	2940		
Phosphorus	ppm	ASTM D5185m	1290	1155		
Zinc	ppm	ASTM D5185m	1640	1204		
Sulfur	ppm	ASTM D5185m		4441		
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	1.40		
Visc @ 40°C	cSt	ASTM D445	57.0	43.2		



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - BURKEVILLE** Sample No. 510 WEST COLONIAL DR : JR0210862 Received : 14 May 2024 窮 Lab Number : 06178634 Tested : 15 May 2024 BURKEVILLE, VA : 16 May 2024 - Don Baldridge US 23922 Unique Number : 11029960 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: BRANDON BOLLING Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. bbolling@jamesriverequipment.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (434)767-5578 F: (434)767-3774 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: BRANDON BOLLING - JAMBUR Page 2 of 2