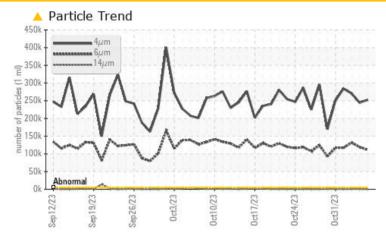


### **PROBLEM SUMMARY**

### Area WCLSNC Machine Id QC230801HY

Component Hydraulic System Fluid JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

### COMPONENT CONDITION SUMMARY



### RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS						
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL		
Particles >4µm	ASTM D7647 >5	5000 <b>🔺 252537</b>	<u> </u>	▲ 270482		
Particles >6µm	ASTM D7647 >	1300 🔺 <b>110783</b>	🔺 119291	🔺 131550		
Particles >14µm	ASTM D7647 >	160 🔺 <b>380</b>	▲ 724	▲ 825		
Oil Cleanliness	ISO 4406 (c) >1	19/17/14 🔺 25/24/16	🔺 25/24/17	🔺 25/24/17		

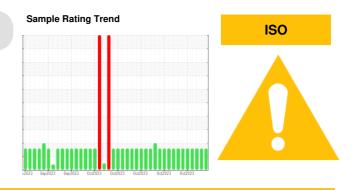
Customer Id: WEACARQA Sample No.: WC0877791 Lab Number: 05999043 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>



RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Filter	MISSED	Nov 14 2023	?	We recommend you service the filters on this component.		

### **HISTORICAL DIAGNOSIS**

#### 03 Nov 2023 Diag: Jonathan Hester



We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

# view report

view report

#### 02 Nov 2023 Diag: Jonathan Hester



We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

01 Nov 2023 Diag: Jonathan Hester

We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.









### **OIL ANALYSIS REPORT**

### WCLSNC Machine Id QC230801HY

Component Hydraulic System

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

### DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

### Wear

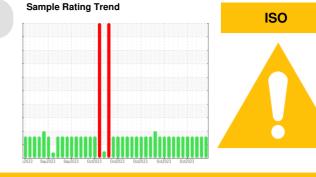
All component wear rates are normal.

### Contamination

There is a high amount of particulates present in the oil.

#### Fluid Condition

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



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0877791	WC0877788	WC0877787
Sample Date		Client Info		06 Nov 2023	03 Nov 2023	02 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>47	32	12	36
Iron	ppm	ASTM D5185m	>78	58	58	61
Chromium	ppm	ASTM D5185m	>2	0	<1	<1
Nickel	ppm	ASTM D5185m	>3	<1	1	1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>5	1	2	<1
Lead	ppm	ASTM D5185m		8	9	9
Copper	ppm	ASTM D5185m	>84	80	73	84
Tin	ppm	ASTM D5185m		1	3	2
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
	ppin		12			
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	96	91	103
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		16	16	17
Magnesium	ppm	ASTM D5185m	145	17	22	22
Calcium	ppm	ASTM D5185m	3570	3248	3274	3561
Phosphorus	ppm	ASTM D5185m	1290	1052	1055	1102
Zinc	ppm	ASTM D5185m	1640	1251	1305	1411
Sulfur	ppm	ASTM D5185m		2883	3017	3889
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	8	9	9
Sodium	ppm	ASTM D5185m	>23	19	17	11
Potassium	ppm	ASTM D5185m	>20	0	0	3
Water	%	ASTM D6304	>0.1669	0.063	0.042	0.065
ppm Water	ppm	ASTM D6304	>1669	630.3	424.8	658.7
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>A</b> 252537	▲ 244500	▲ 270482
Particles >6µm		ASTM D7647	>1300	<u> </u>	<b>1</b> 19291	▲ 131550
Particles >14µm		ASTM D7647	>160	<u> </u>	<u> </u>	▲ 825
Particles >21µm		ASTM D7647	>40	10	17	19
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>^</b> 25/24/16	▲ 25/24/17	▲ 25/24/17
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	0.96	0.95	0.85
3:38:35) Bov: 1					0.00	Submitted By: "

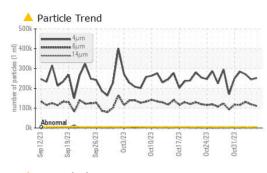
Report Id: WEACARQA [WUSCAR] 05999043 (Generated: 11/15/2023 23:38:35) Rev: 1

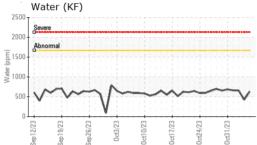


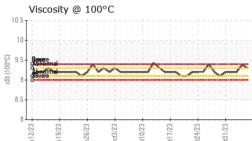
## **OIL ANALYSIS REPORT**

Color

Bottom







VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	MODER	MODER	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	HEAVY
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1669	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.0	62.5	62.42	62.4
Visc @ 100°C	cSt	ASTM D445	9.4	9.3	9.38	9.2
Viscosity Index (VI)	Scale	ASTM D2270	147	127	130	125
SAMPLE IMAGES	6	method	limit/base	current	history1	history2



