

## **PROBLEM SUMMARY**

## Sample Rating Trend

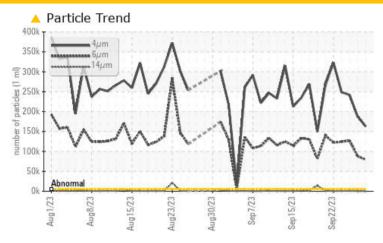
ISO

# WCLSNC Machine Id QC230801HY

Component **Hydraulic System** 

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	>5000	<b>162670</b>	<u>▲</u> 187434	<u>4</u> 241886			
Particles >6μm	ASTM D7647	>1300	<b>79425</b>	<b>▲</b> 87717	<u> </u>			
Particles >14μm	ASTM D7647	>160	<b>^</b> 274	<u></u> 312	<b>△</b> 971			
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>25/23/15</b>	25/24/15	25/24/17			

Customer Id: WEACARQA Sample No.: WC0855418 Lab Number: 05963541 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 customerservice@wearcheck.com

#### **RECOMMENDED ACTIONS**

Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.

#### HISTORICAL DIAGNOSIS

#### 27 Sep 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.



#### 26 Sep 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.



#### 25 Sep 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.



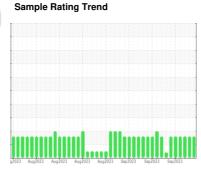


## **OIL ANALYSIS REPORT**

## WCLSNC QC230801HY

**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.

			23 Aug2023 Aug2023	Aug2023 Sep2023 Sep2023	Sep2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0855418	WC0855417	WC0855416
Sample Date		Client Info		28 Sep 2023	27 Sep 2023	26 Sep 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	28	21	28
Iron	ppm	ASTM D5185m	>78	58	55	64
Chromium	ppm	ASTM D5185m	>2	<1	<1	<1
Nickel	ppm	ASTM D5185m		1	<1	1
Titanium	ppm	ASTM D5185m	>2	- <1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>5	2	2	0
Lead		ASTM D5185m	>11	10	8	9
	ppm	ASTM D5185m	>84	76	77	72
Copper Tin	ppm			2	2	3
Vanadium	ppm	ASTM D5185m ASTM D5185m	>4	0	0	<1
· a.raara	ppm					
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	106	105	113
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		17	16	17
Magnesium	ppm	ASTM D5185m	145	21	24	23
Calcium	ppm	ASTM D5185m	3570	3400	3533	3416
Phosphorus	ppm	ASTM D5185m	1290	1127	1137	1088
Zinc	ppm	ASTM D5185m	1640	1381	1389	1355
Sulfur	ppm	ASTM D5185m		3244	3279	3683
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	9	9	9
Sodium	ppm	ASTM D5185m	>23	18	20	17
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304	>0.1669	0.056	0.066	0.062
ppm Water	ppm	ASTM D6304	>1669	568.9	666.3	629.4
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>162670</b>	<b>▲</b> 187434	<u></u> 241886
Particles >6µm		ASTM D7647	>1300	<b>^</b> 79425	<u>▲</u> 87717	<u> </u>
Particles >14µm		ASTM D7647	>160	<b>274</b>	<b>△</b> 312	<b>△</b> 971
Particles >21µm		ASTM D7647	>40	6	4	32
Particles >38µm		ASTM D7647	>10	0	0	1
Particles >71µm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	△ 25/23/15	△ 25/24/15	<u>\$\lambda\$ 25/24/17</u>
FLUID DEGRADA	TION	method				
			limit/base	current	history1	history2 0.77
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	0.83	0.96	0.77



## OIL ANALYSIS REPORT





Certificate L2367

Lab Number **Unique Number** 

: 05963541

: 10670092

Diagnosed : 02 Oct 2023 Diagnostician

: Jonathan Hester Test Package : IND 2 (Additional Tests: KF, KV100, PQ, VI)

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)

Cary, NC US 27513

Contact: WCLS CARY NC

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