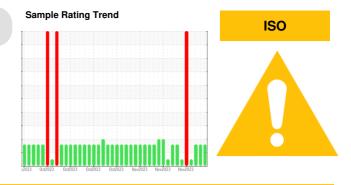


## **PROBLEM SUMMARY**

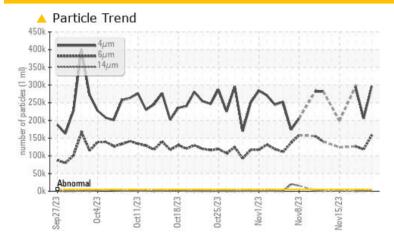
# WCLSNC QC230801HY

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>296526</b>	<u>▲</u> 205673	<u>^</u> 295001			
Particles >6µm	ASTM D7647	>1300	<u> </u>	<u> </u>	<u>▲</u> 126623			
Particles >14μm	ASTM D7647	>160	<b>1469</b>	<u></u> 1074	<u>^</u> 295			
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>25/24/18</b>	25/24/17	25/24/15			

Customer Id: WEACARQA Sample No.: WC0877806 Lab Number: 06014029 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 ihester@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

#### 20 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.



#### 17 Nov 2023 Diag: Jonathan Hester

ISO



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

#### 16 Nov 2023 Diag:

UNKNOWN







## **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.

AL)		52023 Oct20	23 Oct2023 Oct2023	Oct2023 Nov2023 Nov2023	Nov2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0877806	WC0877805	WC0877802
Sample Date		Client Info		21 Nov 2023	20 Nov 2023	17 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	52	56	29
Iron	ppm	ASTM D5185m	>78	73	76	77
Chromium	ppm	ASTM D5185m	>2	<1	1	1
Nickel	ppm	ASTM D5185m	>3	1	1	1
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>5	2	4	3
Lead	ppm	ASTM D5185m	>11	10	8	10
Copper	ppm	ASTM D5185m	>84	77	77	71
Tin	ppm	ASTM D5185m	>4	3	3	4
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	93	98	93
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	2	0	<1
Manganese	ppm	ASTM D5185m		20	19	20
Magnesium	ppm	ASTM D5185m	145	9	10	0
Calcium	ppm	ASTM D5185m	3570	3321	3189	3199
Phosphorus	ppm	ASTM D5185m	1290	1063	1046	995
Zinc	ppm	ASTM D5185m	1640	1316	1282	1266
Sulfur	ppm	ASTM D5185m		2916	3004	2784
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	9	12	9
Sodium	ppm	ASTM D5185m	>23	20	29	19
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>0.1669	0.063	0.058	0.047
ppm Water	ppm	ASTM D6304	>1669	631	580.9	477.3
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>296526</b>	<b>2</b> 05673	<u>295001</u>
Particles >6µm		ASTM D7647	>1300	<u> </u>	<u>▲</u> 118517	<u>▲</u> 126623
Particles >14μm		ASTM D7647	>160	<b>1469</b>	<b>▲</b> 1074	<u> </u>
Particles >21µm		ASTM D7647	>40	33	24	5
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>\$\text{\scale}\$ 25/24/18</u>	<u>△</u> 25/24/17	<u>△</u> 25/24/15
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2

Acid Number (AN)

mg KOH/g ASTM D8045 1.8

0.76

0.72

0.81



## OIL ANALYSIS REPORT





Certificate L2367

Lab Number **Unique Number** 

: 06014029

: 10753173

Diagnosed

: 30 Nov 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)

T: (919)379-4102 F: (919)379-4050

US 27513

Contact: WCLS CARY NC