

PROBLEM SUMMARY

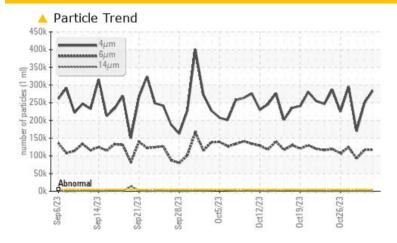
WCLSNC QC230801HY

Component **Hydraulic System**

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

Sample Rating Trend ISO

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	SEVERE	ABNORMAL				
Particles >4µm	ASTM D7647	>5000	283987	250855	<u>▲</u> 169758				
Particles >6µm	ASTM D7647	>1300	117070	117279	92956				
Particles >14µm	ASTM D7647	>160	△ 598	<u></u> ▲ 661	△ 768				
Oil Cleanliness	ISO 4406 (c)	>19/17/14	25/24/16	25/24/17	25/24/17				

Customer Id: WEACARQA Sample No.: WC0877786 Lab Number: 05995561 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

31 Oct 2023 Diag:







30 Oct 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

27 Oct 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.



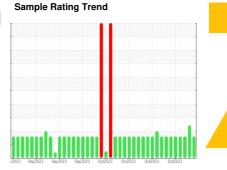


OIL ANALYSIS REPORT

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)						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0877786	WC0865978	WC0865977
Sample Date		Client Info		01 Nov 2023	31 Oct 2023	30 Oct 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	SEVERE	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>47	17	22	5
Iron	ppm	ASTM D5185m	>78	51	53	60
Chromium	ppm	ASTM D5185m	>2	<1	<1	<1
Nickel	ppm	ASTM D5185m	>3	<1	<1	2
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>5	2	1	2
Lead	ppm	ASTM D5185m	>11	9	7	9
Copper	ppm	ASTM D5185m	>84	69	75	78
Tin	ppm	ASTM D5185m	>4	2	2	2
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	91	102	108
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	<1
Manganese	ppm	ASTM D5185m		14	14	17
Magnesium	ppm	ASTM D5185m	145	24	<u>^</u> 29	21
Calcium	ppm	ASTM D5185m	3570	3343	▲ 3065	3379
Phosphorus	ppm	ASTM D5185m	1290	1115	<u>▲</u> 1017	1188
Zinc	ppm	ASTM D5185m	1640	1402	<u>▲</u> 1228	1412
Sulfur	ppm	ASTM D5185m		3196	2826	3826
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	8	7	9
Sodium	ppm	ASTM D5185m		16	18	16
Potassium	ppm	ASTM D5185m	>20	<1	0	2
Water	%	ASTM D6304	>0.1669	0.066	0.068	0.065
ppm Water	ppm	ASTM D6304	>1669	661.0	685.5	655.7
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u>283987</u>	250855	△ 169758
Particles >6µm		ASTM D7647	>1300	<u> </u>	117279	△ 92956
Particles >14μm		ASTM D7647	>160	<u>^</u> 598	<u>▲</u> 661	<u>^</u> 768
Particles >21µm		ASTM D7647	>40	13	16	13
Particles >38μm		ASTM D7647	>10	1	0	1
Particles >71μm		ASTM D7647	>3	1	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>25/24/16</u>	25/24/17	<u>\$\text{\Delta}\$ 25/24/17</u>
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2

Acid Number (AN)

mg KOH/g ASTM D8045 1.8

0.88

0.84



OIL ANALYSIS REPORT





Certificate L2367

Lab Number **Unique Number**

: 05995561 : 10723921

Diagnosed : 07 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)

Cary, NC US 27513

Contact: WCLS CARY NC

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