

PROBLEM SUMMARY

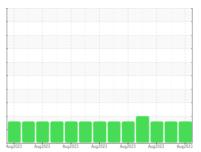
V



WCLSNC Machine Id QC230801HY

Component Hydraulic System

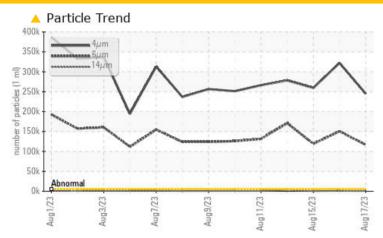
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)



Sample Rating Trend



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	<u> 244909</u>	▲ 322177	<u>\$\times\$ 259499</u>			
Particles >6µm	ASTM D7647	>1300	<u> </u>	▲ 150619	<u>▲</u> 119276			
Particles >14µm	ASTM D7647	>160	△ 637	<u></u> 1016	<u></u> 503			
Oil Cleanliness	ISO 4406 (c)	>19/17/14	25/24/16	26/24/17	25/24/16			

Customer Id: WEACARQA Sample No.: WC0844494 Lab Number: 05927211 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

16 Aug 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.



15 Aug 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.



14 Aug 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.



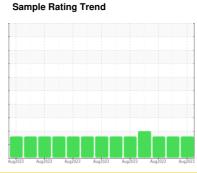


OIL ANALYSIS REPORT

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.

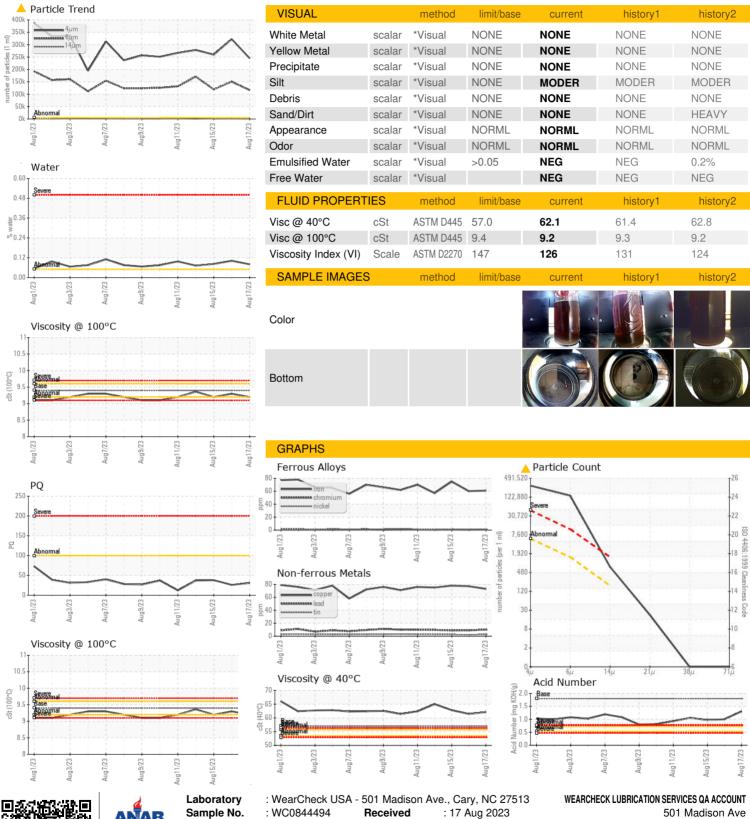
Fluid Condition

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

IAL)		Aug2023	Aug2023 Aug2023	Aug2023 Aug2023 Aug2023	Aug2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0844494	WC0844493	WC0844492
Sample Date		Client Info		17 Aug 2023	16 Aug 2023	15 Aug 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		31	26	38
Iron	ppm	ASTM D5185m	>18	61	60	75
Chromium	ppm	ASTM D5185m	>2	1	<1	1
Nickel	ppm	ASTM D5185m	>2	1	1	2
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	2	2	4
Lead	ppm	ASTM D5185m	>3	10	9	9
Copper	ppm	ASTM D5185m	>10	73	77	78
Tin	ppm	ASTM D5185m	>2	3	2	2
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	108	102	103
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	<1
Manganese	ppm	ASTM D5185m		17	17	19
Magnesium	ppm	ASTM D5185m	145	25	21	21
Calcium	ppm	ASTM D5185m	3570	3439	3490	3455
Phosphorus	ppm	ASTM D5185m	1290	1112	1149	1161
Zinc	ppm	ASTM D5185m	1640	1341	1384	1366
Sulfur	ppm	ASTM D5185m		3741	3474	3273
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>4	9	9	9
Sodium	ppm	ASTM D5185m	>2	19	12	15
Potassium	ppm	ASTM D5185m	>20	1	2	2
Water	%	ASTM D6304	>0.05	0.080	0.102	0.082
ppm Water	ppm	ASTM D6304	>500	800.5	1021.4	829.9
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	<u>4</u> 244909	▲ 322177	△ 259499
Particles >6µm		ASTM D7647	>1300	<u> </u>	150619	<u>▲</u> 119276
Particles >14μm		ASTM D7647	>160	△ 637	<u> </u>	▲ 503
Particles >21µm		ASTM D7647	>40	19	24	15
Particles >38μm		ASTM D7647	>10	0	0	1
Particles >71μm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	25/24/16	<u>\$\rightarrow\$ 26/24/17</u>	<u>△</u> 25/24/16
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	1.307	1.00	0.97



OIL ANALYSIS REPORT





Certificate L2367

Sample No. Lab Number **Unique Number**

: 05927211

: WC0844494 : 10607158

Received Diagnosed

: 23 Aug 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.

501 Madison Ave Cary, NC US 27513

Contact: WCLS CARY NC

T: (919)379-4102

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)379-4050