

PROBLEM SUMMARY

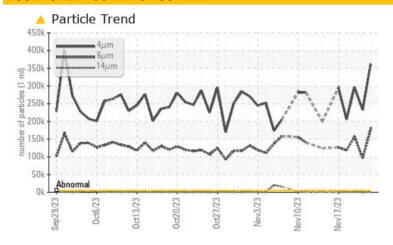
WCLSNC QC230801HY

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		ABNORMA	AL ABNORMAL	ABNORMAL					
Particles >4μm	ASTM D7647 >	5 000 △ 362270	<u>^</u> 232545	<u>\$\text{296526}\$</u>					
Particles >6μm	ASTM D7647 >	1300 A 178431	▲ 95802	<u> </u>					
Particles >14μm	ASTM D7647 >	160 A 1354	<u> </u>	<u> </u>					
Particles >21µm	ASTM D7647 >	4 0 ^ 70	7	33					
Oil Cleanliness	ISO 4406 (c) >	19/17/14 △ 26/25/18	3 \(\text{\rightarrow} \) 25/24/15	<u>\$\text{\scale}\$ 25/24/18</u>					

Customer Id: WEACARQA Sample No.: WC0877808 Lab Number: 06016348 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

22 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.



21 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.



20 Nov 2023 Diag: Jonathan Hester

150



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.



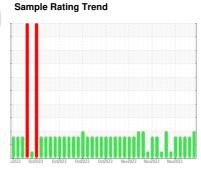


OIL ANALYSIS REPORT

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.

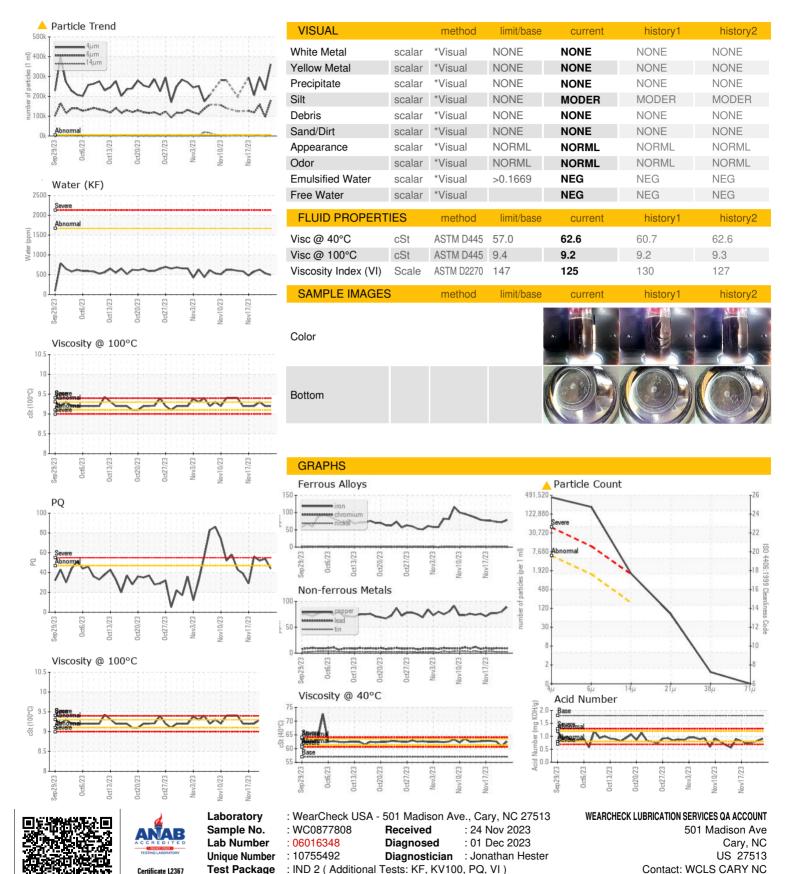
Fluid Condition

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

IAL)		2023 Oct20	23 Oct2023 Oct2023	Oct2023 Nov2023 Nov2023 1	lov2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0877808	WC0877807	WC0877806
Sample Date		Client Info		23 Nov 2023	22 Nov 2023	21 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	44	54	52
Iron	ppm	ASTM D5185m	>78	78	72	73
Chromium	ppm	ASTM D5185m	>2	<1	1	<1
Nickel	ppm	ASTM D5185m	>3	2	2	1
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>5	2	2	2
Lead	ppm	ASTM D5185m	>11	9	10	10
Copper	ppm	ASTM D5185m	>84	89	80	77
Tin	ppm	ASTM D5185m	>4	3	3	3
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	108	113	93
Barium	ppm		0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	<1	2
Manganese	ppm	ASTM D5185m		22	21	20
Magnesium	ppm	ASTM D5185m	145	22	23	9
Calcium	ppm	ASTM D5185m	3570	3748	3504	3321
Phosphorus	ppm	ASTM D5185m	1290	1226	1228	1063
Zinc	ppm	ASTM D5185m	1640	1450	1451	1316
Sulfur	ppm	ASTM D5185m		3872	3372	2916
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		10	11	9
Sodium	ppm	ASTM D5185m	>23	13	18	20
Potassium	ppm	ASTM D5185m	>20	2	2	0
Water	%	ASTM D6304	>0.1669	0.049	0.053	0.063
ppm Water	ppm	ASTM D6304	>1669	494	538	631
FLUID CLEANLINI	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ 362270	<u>232545</u>	<u>^</u> 296526
Particles >6µm		ASTM D7647	>1300	<u> 178431</u>	▲ 95802	▲ 157517
Particles >14μm		ASTM D7647	>160	<u> 1354</u>	<u>192</u>	<u>1469</u>
Particles >21µm		ASTM D7647		<u>^</u> 70	7	33
Particles >38μm		ASTM D7647	>10	1	1	0
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 26/25/18	<u>25/24/15</u>	<u>\$\text{25}/24/18}</u>
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	0.91	0.82	0.76



OIL ANALYSIS REPORT



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)

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