

PROBLEM SUMMARY

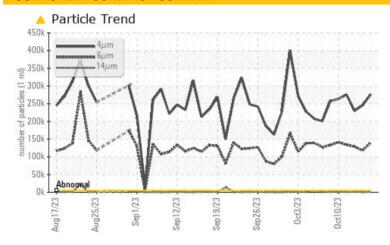
WCLSNC QC230801HY

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	ABNORMAL	ABNORMAL
Particles >4µm	ASTM D7647	>5000	276814	<u>4</u> 245458	<u>229867</u>
Particles >6µm	ASTM D7647	>1300	140399	<u>▲</u> 117651	<u>▲</u> 128852
Particles >14µm	ASTM D7647	>160	1077	492	<u>▲</u> 1226
Oil Cleanliness	ISO 4406 (c)	>19/17/14	25/24/17	25/24/16	25/24/17

Customer Id: WEACARQA **Sample No.:** WC0865963 Lab Number: 05979590 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
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Change Filter MISSED Oct 23 2023 ? We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

13 Oct 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.



12 Oct 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.



11 Oct 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.



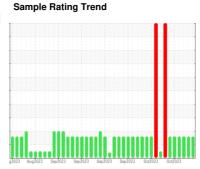


OIL ANALYSIS REPORT

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.

AL)		g2023 Aug20	23 Sep2023 Sep2023	Sep2023 Sep2023 Oct2023	Oct2023	
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0865963	WC0865960	WC0865959
Sample Date		Client Info		16 Oct 2023	13 Oct 2023	12 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	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>47	33	43	38
Iron	ppm	ASTM D5185m	>78	71	68	78
Chromium	ppm	ASTM D5185m	>2	1	<1	<1
Nickel	ppm	ASTM D5185m	>3	1	1	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>5	3	2	2
Lead	ppm	ASTM D5185m	>11	10	9	9
Copper	ppm	ASTM D5185m	>84	75	70	71
Tin	ppm	ASTM D5185m	>4	3	3	2
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	96	93	90
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		18	18	19
Magnesium	ppm	ASTM D5185m	145	18	22	24
Calcium	ppm	ASTM D5185m	3570	3216	3309	3337
Phosphorus	ppm	ASTM D5185m	1290	1092	1118	1108
Zinc	ppm	ASTM D5185m	1640	1338	1338	1417
Sulfur	ppm	ASTM D5185m		3101	3060	3247
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	9	9	9
Sodium	ppm	ASTM D5185m	>23	19	18	17
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
Water	%	ASTM D6304	>0.1669	0.054	0.065	0.056
ppm Water	ppm	ASTM D6304	>1669	548.2	650.5	561.8
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	<u>276814</u>	<u>4</u> 245458	<u>229867</u>
Particles >6µm		ASTM D7647	>1300	<u> </u>	<u>▲</u> 117651	<u>▲</u> 128852
Particles >14µm		ASTM D7647	>160	<u> </u>	▲ 492	<u> </u>
Particles >21µm		ASTM D7647	>40	25	9	26
Particles >38µm		ASTM D7647	>10	0	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>25/24/17</u>	<u>\$\text{\scale}\$ 25/24/16</u>	<u>\$\text{\Delta}\$ 25/24/17</u>
FLUID DEGRADAT	TION	method	limit/base	current	history1	history2
A : INI /AND	1/011/	4 OT1 4 D00 45	4.0	0.00	0.044	1.00

Acid Number (AN)

mg KOH/g ASTM D8045 1.8

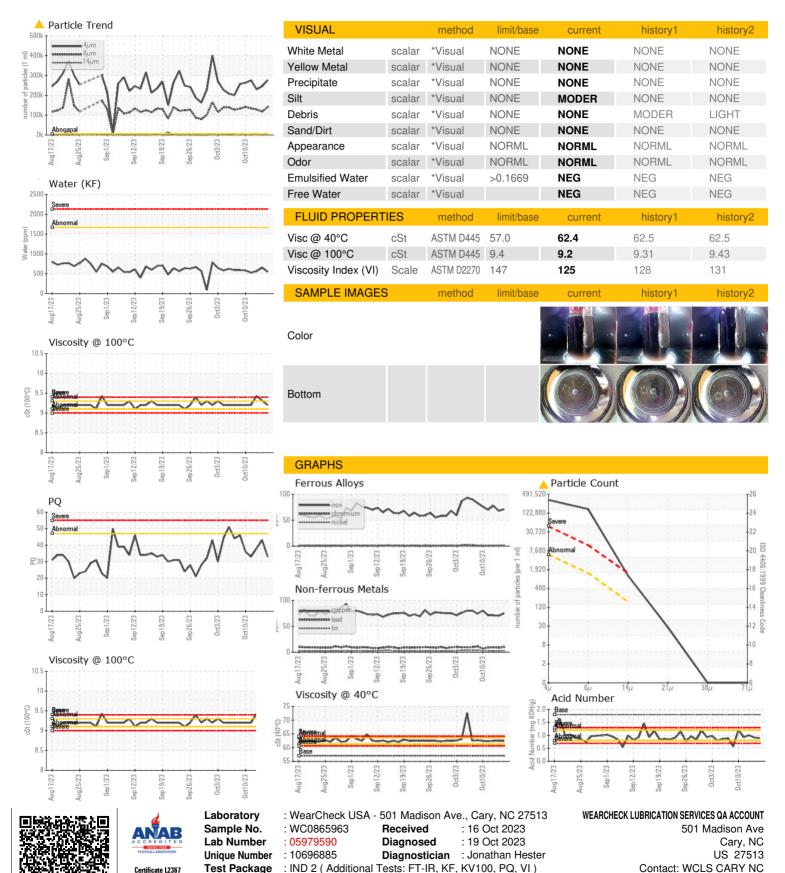
0.89

0.914

1.00



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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