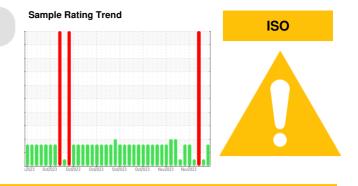


PROBLEM SUMMARY

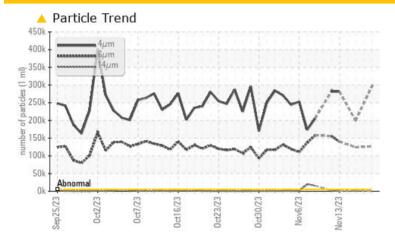
WCLSNC QC230801HY

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		SEVERE			
Particles >4µm	ASTM D7647	>5000	<u>295001</u>		199510			
Particles >6µm	ASTM D7647	>1300	126623		124262			
Particles >14µm	ASTM D7647	>160	<u> </u>		2146			
Oil Cleanliness	ISO 4406 (c)	>19/17/14	25/24/15		25/24/18			

Customer Id: WEACARQA **Sample No.:** WC0877802 Lab Number: 06010755 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 MISSED Nov 29 2023 ? We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

16 Nov 2023 Diag:







15 Nov 2023 Diag:

WEAR





14 Nov 2023 Diag:

UNKNOWN





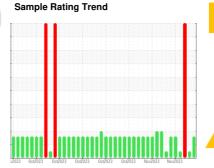


OIL ANALYSIS REPORT

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 Oct2023 Nov2023 1	Nov2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0877802	WC0877801	WC0877800
Sample Date		Client Info		17 Nov 2023	16 Nov 2023	15 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		SEVERE
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>47	29	39	43
Iron	ppm	ASTM D5185m	>78	77	<u>^</u> 79	△ 85
Chromium	ppm	ASTM D5185m	>2	1	1	1
Nickel	ppm	ASTM D5185m	>3	1	2	2
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>5	3	1	3
Lead	ppm	ASTM D5185m	>11	10	8	1 2
Copper	ppm	ASTM D5185m	>84	71	76	74
Tin	ppm	ASTM D5185m	>4	4	2	4
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	93	101	97
Barium	ppm	ASTM D5185m	0	0	• 8	<1
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		20	<u>^</u> 20	<u>^</u> 22
Magnesium	ppm	ASTM D5185m	145	0	2 0	27
Calcium	ppm	ASTM D5185m	3570	3199	▲ 3122	3535
Phosphorus	ppm	ASTM D5185m	1290	995	<u>▲</u> 1021	<u>1264</u>
Zinc	ppm	ASTM D5185m	1640	1266	1290	<u>▲</u> 1576
Sulfur	ppm	ASTM D5185m		2784	3442	3631
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	9	9	10
Sodium	ppm	ASTM D5185m	>23	19	14	19
Potassium	ppm	ASTM D5185m	>20	<1	2	<1
Water	%	ASTM D6304	>0.1669	0.047	0.058	0.060
ppm Water	ppm	ASTM D6304	>1669	477.3	588.0	601.7
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	<u>295001</u>		199510
Particles >6μm		ASTM D7647	>1300	<u> </u>		124262
Particles >14μm		ASTM D7647	>160	<u>^</u> 295		2146
Particles >21µm		ASTM D7647	>40	5		51
Particles >38µm		ASTM D7647	>10	0		0
Particles >71µm		ASTM D7647	>3	0		0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>25/24/15</u>		25/24/18
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	0.81	0.89	0.562



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)

Certificate L2367

T: (919)379-4102

F: (919)379-4050