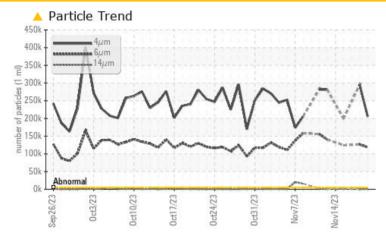


PROBLEM SUMMARY

Area WCLSNC Machine Id QC230801HY

Component Hydraulic System Fluid JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

COMPONENT CONDITION SUMMARY



Sample Rating Trend ISO

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			
Particles >4µm	ASTM D7647	>5000	🔺 205673	A 295001			
Particles >6µm	ASTM D7647	>1300	🔺 118517	126623			
Particles >14µm	ASTM D7647	>160	<u> </u>	A 295			
Oil Cleanliness	ISO 4406 (c)	>19/17/14	🔺 25/24/17	🔺 25/24/15			

Customer Id: WEACARQA Sample No.: WC0877805 Lab Number: 06012386 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 <u>customerservice@wearcheck.com</u>

RECOMMENDED AC	DMMENDED ACTIONS					
Action	Status	Date	Done By	Description		
Change Filter			?	We recommend you service the filters on this component.		

HISTORICAL DIAGNOSIS

17 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.	
	16 Nov 2023 Diag:	
WEAR	15 Nov 2023 Diag:	view report

view report



OIL ANALYSIS REPORT

Area WCLSNC QC230801HY

Component 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

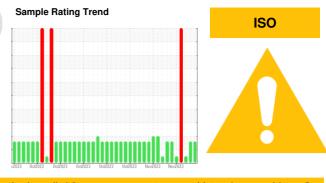
All component wear rates are normal.

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.



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0877805	WC0877802	WC0877801
Sample Date		Client Info		20 Nov 2023	17 Nov 2023	16 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	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>47	56	29	39
Iron	ppm	ASTM D5185m	>78	76	77	1 79
Chromium	ppm	ASTM D5185m	>2	1	1	1
Nickel	ppm	ASTM D5185m	>3	1	1	2
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>5	4	3	1
Lead	ppm	ASTM D5185m	>11	8	10	8
Copper	ppm	ASTM D5185m	>84	77	71	76
Tin	ppm	ASTM D5185m	>4	3	4	2
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	98	93	101
Barium	ppm	ASTM D5185m	0	0	0	8
Molybdenum	ppm	ASTM D5185m	0	0	<1	0
Manganese	ppm	ASTM D5185m		19	20	<u> </u>
Magnesium	ppm	ASTM D5185m	145	10	0	<u> </u>
Calcium	ppm	ASTM D5185m	3570	3189	3199	▲ 3122
Phosphorus	ppm	ASTM D5185m	1290	1046	995	🔺 1021
Zinc	ppm	ASTM D5185m	1640	1282	1266	1290
Sulfur	ppm	ASTM D5185m		3004	2784	3442
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	12	9	9
Sodium	ppm	ASTM D5185m	>23	29	19	14
Potassium	ppm	ASTM D5185m	>20	0	<1	2
Water	%	ASTM D6304	>0.1669	0.058	0.047	0.058
ppm Water	ppm	ASTM D6304	>1669	580.9	477.3	588.0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	A 205673	A 295001	
Particles >6µm		ASTM D7647	>1300	<u> </u>	126623	
Particles >14µm		ASTM D7647	>160	1074	A 295	
Particles >21µm		ASTM D7647	>40	24	5	
Particles >38µm		ASTM D7647	>10	0	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 25/24/17	▲ 25/24/15	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	0.72	0.81	0.89

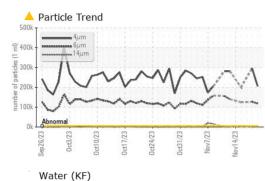
Report Id: WEACARQA [WUSCAR] 06012386 (Generated: 11/30/2023 00:14:24) Rev: 1

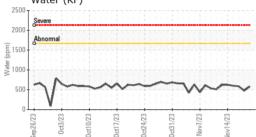


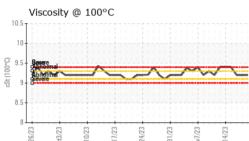
OIL ANALYSIS REPORT

Color

Bottom







VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	MODER	MODER	🔺 MODER
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1669	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.0	62.81	62.8	62.7
Visc @ 100°C	cSt	ASTM D445	9.4	9.2	9.2	9.2
Viscosity Index (VI)	Scale	ASTM D2270	147	124	124	124
SAMPLE IMAGES		method	limit/base	current	history1	history2



