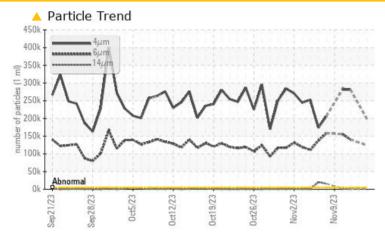


## **PROBLEM SUMMARY**

#### Area WCLSNC Machine Id QC230801HY

Component Hydraulic System Fluid 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		ABNORMAL			
Particles >4µm	ASTM D7647	>5000	<u> </u>		<u> </u>			
Particles >6µm	ASTM D7647	>1300	🔺 124262		<u> </u>			
Particles >14µm	ASTM D7647	>160	<u> </u>		642			
Particles >21µm	ASTM D7647	>40	<u> </u>		18			
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<u> </u>		▲ 25/24/17			

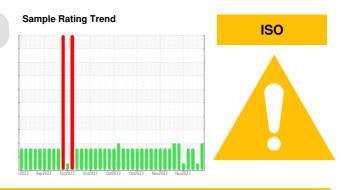
Customer Id: WEACARQA Sample No.: WC0877800 Lab Number: 06008311 Test Package: IND 2



To manage this report scan the QR code

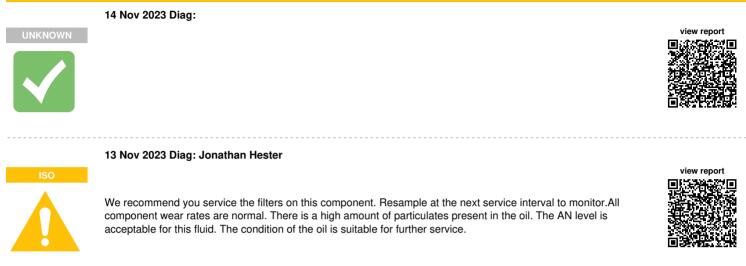
*To discuss the diagnosis or test data:* Jonathan Hester +1 919-379-4092 x4092 <u>jhester@wearcheckusa.com</u>

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>



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

#### HISTORICAL DIAGNOSIS



10 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.





### **OIL ANALYSIS REPORT**

### WCLSNC Machine Id 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

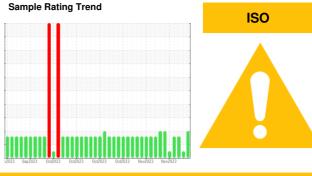
All component wear rates are normal.

#### 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	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0877800	WC0877799	WC0877798
Sample Date		Client Info		15 Nov 2023	14 Nov 2023	13 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	43	<b>6</b> 58	52
Iron	ppm	ASTM D5185m	>78	85	91	96
Chromium	ppm	ASTM D5185m	>2	1	1	1
Nickel	ppm	ASTM D5185m	>3	2	2	2
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>5	3	3	3
Lead	ppm	ASTM D5185m	>11	12	9	11
Copper	ppm	ASTM D5185m	>84	74	76	73
Tin	ppm	ASTM D5185m	>4	4	3	4
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	97	92	104
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	0
Manganese	ppm	ASTM D5185m		22	<u> </u>	23
Magnesium	ppm	ASTM D5185m	145	27	22	0
Calcium	ppm	ASTM D5185m	3570	3535	3288	3353
Phosphorus	ppm	ASTM D5185m	1290	1264	1117	1159
Zinc	ppm	ASTM D5185m	1640	1576	1394	1477
Sulfur	ppm	ASTM D5185m		3631	3278	3357
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	10	10	10
Sodium	ppm	ASTM D5185m	>23	19	18	19
Potassium	ppm	ASTM D5185m	>20	<1	2	2
Water	%	ASTM D6304	>0.1669	0.060	0.062	0.062
ppm Water	ppm	ASTM D6304		601.7	624.9	621.9
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>199510</b>		▲ 280974
Particles >6µm		ASTM D7647	>1300	<u> </u>		▲ 140138
Particles >14μm		ASTM D7647	>160	<b>A</b> 2146		642
Particles >21µm		ASTM D7647		<u> </u>		18
Particles >38µm		ASTM D7647	>10	0		1
Particles >71µm		ASTM D7647	>3	0		0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>^</b> 25/24/18		▲ 25/24/17
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	0.562	0.663	0.79
10.40) Dove 1						Output the all Door

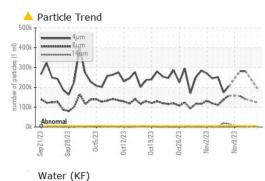
Report Id: WEACARQA [WUSCAR] 06008311 (Generated: 11/30/2023 10:10:48) Rev: 1

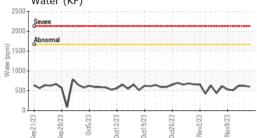


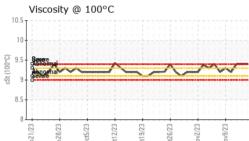
# **OIL ANALYSIS REPORT**

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	0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.0	62.6	62.5	63.6
Visc @ 100°C	cSt	ASTM D445	9.4	9.4	9.4	9.4
Viscosity Index (VI)	Scale	ASTM D2270	147	130	130	127
SAMPLE IMAGES		method	limit/base	current	history1	history2



