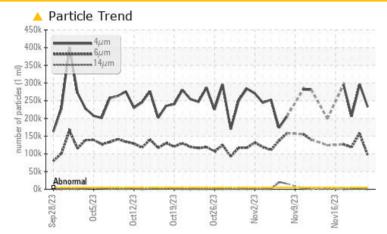


PROBLEM SUMMARY

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	ABNORMAL		
Particles >4µm	ASTM D7647 >	>5000	<u> </u>	<u> </u>	A 205673		
Particles >6µm	ASTM D7647 >	1300	4 95802	🔺 157517	🔺 118517		
Particles >14µm	ASTM D7647 >	160	🔺 192	1 469	1 074		
Oil Cleanliness	ISO 4406 (c) >	19/17/14	a 25/24/15	🔺 25/24/18	🔺 25/24/17		

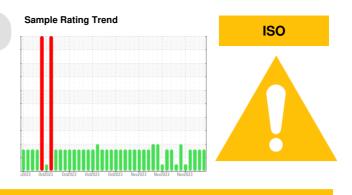
Customer Id: WEACARQA Sample No.: WC0877807 Lab Number: 06015047 Test Package: IND 2



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 customerservice@wearcheck.com



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

HISTORICAL DIAGNOSIS



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.

view report

view report

20 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.

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.







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

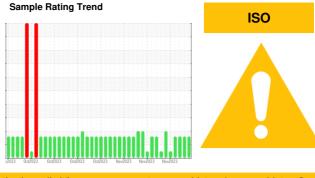
All component wear rates are normal.

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	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0877807	WC0877806	WC0877805
Sample Date		Client Info		22 Nov 2023	21 Nov 2023	20 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	54	52	56
Iron	ppm	ASTM D5185m	>78	72	73	76
Chromium	ppm	ASTM D5185m	>2	1	<1	1
Nickel	ppm	ASTM D5185m	>3	2	1	1
Titanium	ppm	ASTM D5185m	>2	_ <1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>5	2	2	4
Lead	ppm	ASTM D5185m	>11	10	10	8
Copper	ppm	ASTM D5185m	>84	80	77	77
Tin	ppm	ASTM D5185m	>4	3	3	3
Vanadium	ppm	ASTM D5185m	7	0	<1	<1
Cadmium	ppm	ASTM D5185m		1	0	0
Caumum	ррш	ASTNI DUTOJITI		1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	113	93	98
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	2	0
Manganese	ppm	ASTM D5185m		21	20	19
Magnesium	ppm	ASTM D5185m	145	23	9	10
Calcium	ppm	ASTM D5185m	3570	3504	3321	3189
Phosphorus	ppm	ASTM D5185m	1290	1228	1063	1046
Zinc	ppm	ASTM D5185m	1640	1451	1316	1282
Sulfur	ppm	ASTM D5185m		3372	2916	3004
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	11	9	12
Sodium	ppm	ASTM D5185m	>23	18	20	29
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water	%	ASTM D6304	>0.1669	0.053	0.063	0.058
ppm Water	ppm	ASTM D6304	>1669	538	631	580.9
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>	▲ 296526	🔺 205673
Particles >6µm		ASTM D7647	>1300	4 95802	1 57517	1 18517
Particles >14µm		ASTM D7647	>160	4 192	1 469	1 074
Particles >21µm		ASTM D7647	>40	7	33	24
Particles >38μm		ASTM D7647	>10	1	0	0
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 25/24/15	▲ 25/24/18	▲ 25/24/17
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Acid Number (AN)

mg KOH/g ASTM D8045 1.8

0.76

0.82

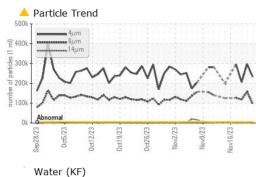
Report Id: WEACARQA [WUSCAR] 06015047 (Generated: 11/30/2023 14:56:59) Rev: 1

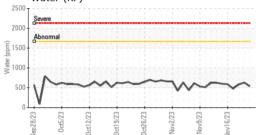


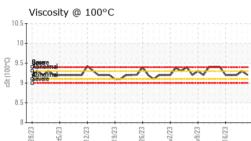
OIL ANALYSIS REPORT

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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.0	60.7	62.6	62.81
Visc @ 100°C	cSt	ASTM D445	9.4	9.2	9.3	9.2
Viscosity Index (VI)	Scale	ASTM D2270	147	130	127	124
SAMPLE IMAGES		method	limit/base	current	history1	history2



