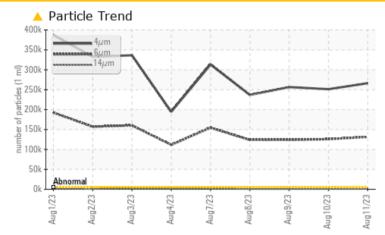
PROBLEM SUMMARY



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		ABN	ORMAL	ABNORMAL	ABNORMAL		
Particles >4µm	ASTM D7647 >	>5000 🔺 26	6322	<u> </u>	🔺 256594		
Particles >6µm	ASTM D7647 >	>1300 🛛 🔺 13	1519	125869	1 23877		
Particles >14µm	ASTM D7647 >	-160 🔺 93	7	<u> </u>	A 763		
Oil Cleanliness	ISO 4406 (c) >	>19/17/14 🔺 25	/24/17	🔺 25/24/17	🔺 25/24/17		

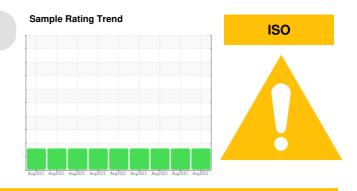
Customer Id: WEACARQA Sample No.: WC0844488 Lab Number: 05922216 Test Package: IND 2



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 Aug 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.



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.

08 Aug 2023 Diag: Jonathan Hester

09 Aug 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





OIL ANALYSIS REPORT

SAMPLE INFORMATION method

Sample Rating Trend

limit/base



current

history1

history2

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.

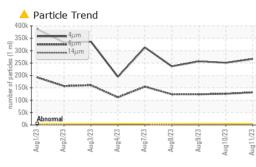
SAMPLE INFORM	ATION	method	limit/base	current	nistory i	nistory2
Sample Number		Client Info		WC0844488	WC0844487	WC0844486
Sample Date		Client Info		11 Aug 2023	10 Aug 2023	09 Aug 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		12	37	27
Iron	ppm	ASTM D5185m	<1Q	70	62	66
Chromium		ASTM D5185m	>2	1	1	<1
Nickel	ppm	ASTM D5185m		1	2	2
Titanium	ppm		>2		<1	0
	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>3	4	2	3
Lead	ppm	ASTM D5185m		10	10	11
Copper	ppm	ASTM D5185m	>10	76	71	76
Tin	ppm	ASTM D5185m	>2	3	3	3
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	101	92	112
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	2	0
Manganese	ppm	ASTM D5185m		18	17	17
Magnesium	ppm	ASTM D5185m	145	24	21	25
Calcium	ppm	ASTM D5185m	3570	3467	3028	3687
Phosphorus	ppm	ASTM D5185m	1290	1108	1004	1200
Zinc	ppm	ASTM D5185m	1640	1391	1258	1478
Sulfur	ppm	ASTM D5185m		3777	3610	4012
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>4	9	9	9
Sodium	ppm	ASTM D5185m	>2	19	21	19
Potassium	ppm	ASTM D5185m	>20	0	3	0
Water	%	ASTM D6304	>0.05	0.098	0.075	0.067
ppm Water	ppm	ASTM D6304	>500	984.7	750.1	673.8
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	A 266322	▲ 251266	▲ 256594
Particles >6µm		ASTM D7647	>1300	🔺 131519	125869	123877
Particles >14µm		ASTM D7647	>160	<u> </u>	A 851	A 763
Particles >21µm		ASTM D7647	>40	20	25	21
Particles >38µm		ASTM D7647	>10	1	0	2
Particles >71µm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>	▲ 25/24/17	▲ 25/24/17
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	0.93	0.814	0.797
9:04:54) Rev: 1						Submitted By:
						-

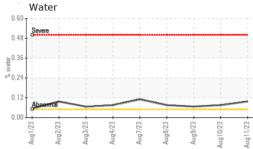


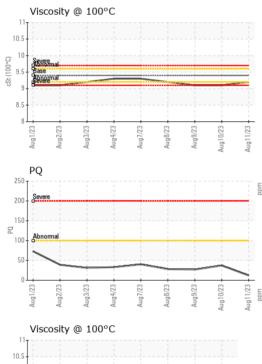
OIL ANALYSIS REPORT

Color

Bottom







cSt (100°C)

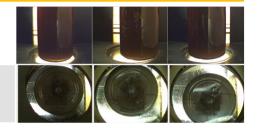
£

9.

8.5



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	>0.05	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	62.4	61.4	62.5
Visc @ 100°C	cSt	ASTM D445	9.4	9.2	9.1	9.1
Viscosity Index (VI)	Scale	ASTM D2270	147	125	125	122
SAMPLE IMAGES		method	limit/base	current	history1	history2



history2

NONE

NONE

