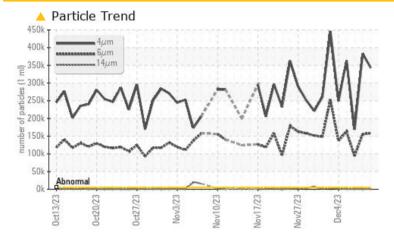


Area WCLSNC Machine Id QC230801HY

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 T	EST RE	SULTS				
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Particles >4µm		ASTM D7647	>5000	<u> </u>	▲ 382752	▲ 169208
Particles >6µm		ASTM D7647	>1300	🔺 158443	🔺 155519	4 94351
Particles >14µm		ASTM D7647	>160	<u> </u>	<u> </u>	<u> </u>
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>	🔺 26/24/16	🔺 25/24/17
Viscosity Index (VI)	Scale	ASTM D2270	147	<u> </u>	130	128

Customer Id: WEACARQA Sample No.: WC0886473 Lab Number: 06029363 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 AC	TIONS			
Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

07 Dec 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

06 Dec 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.

05 Dec 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

Sample Rating Trend

OFF SPEC

Area 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 Number Client Info WC0886473 WC0886472 WC0886473 WA N/A N/A N/A N/A MA Sample Status Immit/base current History1 History1 History1 Interview Interview </th <th>•</th> <th></th> <th>t2023 Oct20</th> <th>23 Oct2023 Nov2023</th> <th>Nov2023 Nov2023 Nov2023 1</th> <th>Dec2023</th> <th></th>	•		t2023 Oct20	23 Oct2023 Nov2023	Nov2023 Nov2023 Nov2023 1	Dec2023	
Sample Date Client Info 08 Dec 2023 07 Dec 2023 06 Dec 2023 Machine Age hrs Client Info 0 0 0 Dil Age hrs Client Info N/A N/A N/A Sample Status Client Info N/A N/A ABNORMAL ABNORMAL WEAR METALS method lmit/base current history1 history1 PQ ASTM D5185m >78 58 66 59 Chromium ppm ASTM D5185m >2 <1 <1 <1 Nickel ppm ASTM D5185m >2 0 <1 0 Silver ppm ASTM D5185m >5 1 2 2 Lead ppm ASTM D5185m >4 1 2 2 Vanadium ppm ASTM D5185m <1 2 2 Vanadium ppm ASTM D5185m 0 0 0 0 ADD101555m <1	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info O O O Oil Agage hrs Client Info NA N/A N/A Sample Status I Imit/base current history1 history2 PQ ASTM D8184 >47 10 16 33 Iron ppm ASTM D8184 >47 10 16 33 Iron ppm ASTM D8186 >78 58 66 59 Chromium ppm ASTM D5185m >2 41 1 1 Nickel ppm ASTM D5185m >2 0 31 0 Auminum ppm ASTM D5185m >2 0 31 2 2 Lead ppm ASTM D5185m >5 1 2 2 2 Vanadium ppm ASTM D5185m >4 80 74 74 Vanadium ppm ASTM D5185m >4 10 2 2 Vanadium ppm ASTM D5185m >4 11 2 2 Barium ppm ASTM D5185m >4 10 0 0 Magnesium ppm ASTM D5185m 1 <t< td=""><td>Sample Number</td><td></td><td>Client Info</td><td></td><td>WC0886473</td><td>WC0886472</td><td>WC0886471</td></t<>	Sample Number		Client Info		WC0886473	WC0886472	WC0886471
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Oli Changed Client Info N/A N/A N/A N/A Sample Status Image: Client Info MABNORMAL ABNORMAL ABNORMAL <td< td=""><td>Machine Age</td><td>hrs</td><td>Client Info</td><td></td><td>0</td><td>0</td><td>0</td></td<>	Machine Age	hrs	Client Info		0	0	0
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PQ ASTM D8184 >47 10 16 33 Iron ppm ASTM D5185n >78 58 66 59 Chromium ppm ASTM D5185n >2 <1	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
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Nickel ppm ASTM D5185m >3 <1 1 1 Titanium ppm ASTM D5185m >2 0 <1			ASTM D5185m	>2	<1		<1
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Sulfur ppm ASTM D5185m 3717 3562 3103 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >11 8 9 9 Sodium ppm ASTM D5185m >23 16 16 19 Potassium ppm ASTM D5185m >20 2 3 0 Water % ASTM D6304 >0.1669 0.061 0.080 0.054 ppm Water ppm ASTM D6304 >1669 617 803 546 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 4 343382 382752 4 169208 Particles >6µm ASTM D7647 >1300 158443 155519 94351 Particles >21µm ASTM D7647 >10 0 0 1 Particles >38µm ASTM D7647 >30	Phosphorus	ppm	ASTM D5185m	1290	1144	1147	1087
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Potassium ppm ASTM D5185m >20 2 3 0 Water % ASTM D6304 >0.1669 0.061 0.080 0.054 ppm Water ppm ASTM D6304 >1669 617 803 546 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 ▲ 343382 ▲ 382752 ▲ 169208 Particles >6µm ASTM D7647 >1300 ▲ 158443 ▲ 155519 ● 94351 Particles >14µm ASTM D7647 >160 ▲ 1190 ▲ 549 & 810 Particles >21µm ASTM D7647 >10 0 0 1 1 Particles >71µm ASTM D7647 >3 0 0 0 0 OIl Cleanliness ISO 4406 (c) >19/17/14 26/24/17 26/24/16 25/24/17 FLUID DEGRADATION method limit/base	Sodium			>23	-		
Water % ASTM D6304 >0.1669 0.061 0.080 0.054 ppm Water ppm ASTM D6304 >1669 617 803 546 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 ▲ 343382 ▲ 382752 ▲ 169208 Particles >6µm ASTM D7647 >1300 ▲ 158443 ▲ 155519 ▲ 94351 Particles >6µm ASTM D7647 >160 ▲ 1190 ▲ 549 ▲ 810 Particles >14µm ASTM D7647 >100 ▲ 159208 ▲ 810 Particles >21µm ASTM D7647 >100 ▲ 1900 ▲ 549 ▲ 810 Particles >38µm ASTM D7647 >10 0 0 1 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 26/24/17 26/24/16 25/24/17 FLUID DEGRADATION method limit/base current history1							
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Particles >6µm ASTM D7647 >1300 ▲ 158443 ▲ 155519 ▲ 94351 Particles >14µm ASTM D7647 >160 ▲ 1190 ▲ 549 ▲ 810 Particles >21µm ASTM D7647 >40 38 6 24 Particles >38µm ASTM D7647 >10 0 0 1 Particles >38µm ASTM D7647 >3 0 0 0 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 26/24/17 ▲ 26/24/16 ▲ 25/24/17 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 1.8 0.82 0.80 0.80			ASTM D7647				
Particles >14µm ASTM D7647 >160 ▲ 1190 ▲ 549 ▲ 810 Particles >21µm ASTM D7647 >40 38 6 24 Particles >38µm ASTM D7647 >10 0 0 1 Particles >38µm ASTM D7647 >10 0 0 1 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 26/24/17 26/24/16 25/24/17 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 1.8 0.82 0.80 0.80	•						
Particles >21µm ASTM D7647 >40 38 6 24 Particles >38µm ASTM D7647 >10 0 0 1 Particles >38µm ASTM D7647 >10 0 0 1 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 26/24/17 26/24/16 25/24/17 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 1.8 0.82 0.80 0.80							
Particles >38µm ASTM D7647 >10 0 0 1 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 26/24/17 26/24/16 25/24/17 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 1.8 0.82 0.80 0.80							
Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >19/17/14 ▲ 26/24/17 ▲ 26/24/16 ▲ 25/24/17 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 1.8 0.82 0.80 0.80							
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Acid Number (AN) mg KOH/g ASTM D8045 1.8 0.82 0.80 0.80			()				
	Acid Number (AN) :10:15) Rev: 1	mg KOH/g	ASTM D8045	1.8	0.82	0.80	0.80 Submitted By

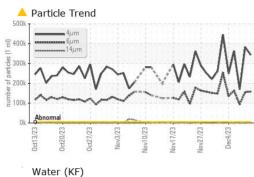
Report Id: WEACARQA [WUSCAR] 06029363 (Generated: 12/15/2023 16:10:15) Rev: 1

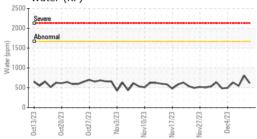


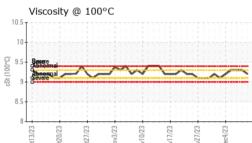
OIL ANALYSIS REPORT

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	62.42	61.6	62.4
Visc @ 100°C	cSt	ASTM D445	9.4	9.2	9.3	9.3
Viscosity Index (VI)	Scale	ASTM D2270	147	125	130	128
SAMPLE IMAGES	6	method	limit/base	current	history1	history2



