

## **OIL ANALYSIS REPORT**

# 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.



	ATION	method	iimi/base	current	nistory i	nistoryz
Sample Number		Client Info		WC0906368	WC0906367	WC0906366
Sample Date		Client Info		23 Feb 2024	22 Feb 2024	21 Feb 2024
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	90	57	43
Iron	ppm	ASTM D5185m	>78	136	139	83
Chromium	ppm	ASTM D5185m	>2	2	1	1
Nickel	ppm	ASTM D5185m	>3	3	1	1
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>5	2	4	3
Lead	ppm	ASTM D5185m	>11	9	9	10
Copper	ppm	ASTM D5185m	>84	93	82	78
Tin	ppm	ASTM D5185m	>4	5	4	3
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	105	95	93
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		24	26	23
Magnesium	ppm	ASTM D5185m	145	21	17	23
Calcium	ppm	ASTM D5185m	3570	3351	3495	3298
Phosphorus	ppm	ASTM D5185m	1290	1046	1164	1155
Zinc	ppm	ASTM D5185m	1640	1353	1426	1339
Sulfur	ppm	ASTM D5185m		3588	3171	3070
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	13	11	10
Sodium	ppm	ASTM D5185m	>23	18	20	21
Potassium	ppm	ASTM D5185m	>20	2	0	<1
Water	%	ASTM D6304	>0.1669	0.058	0.060	0.047
ppm Water	ppm	ASTM D6304	>1669	582	608	474
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>410973</b>	▲ 175824	<b>A</b> 221521
Particles >6µm		ASTM D7647	>1300	<u> </u>	▲ 138882	▲ 174531
Particles >14µm		ASTM D7647	>160	<b>A</b> 2829	<b>1</b> 8154	<u> </u>
Particles >21µm		ASTM D7647	>40	<u> </u>	<b>1</b> 418	<b>2</b> 564
Particles >38µm		ASTM D7647	>10	8	2	<b>2</b> 6
Particles >71µm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 26/25/19	▲ 25/24/21	▲ 25/25/22
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	0.89	0.95	0.91

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0.91

Submitted By: ?



## **OIL ANALYSIS REPORT**

Color

Bottom













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