

OIL ANALYSIS REPORT

WCLSNC QC230801HY

Component **Hydraulic System**

JOHN DEERE HY-GARD HYD/TRANS (--- GAL)



Sample Rating Trend



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.

AL)		c2023 Dec20	23 Dec2023 Dec2023	Jan2024 Jan2024 Jan2024	Jan2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0895315	WC0895314	WC0895313
Sample Date		Client Info		31 Jan 2024	30 Jan 2024	29 Jan 2024
Machine Age	hrs	Client Info		0	0	0
Dil 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	63	52	56
ron	ppm	ASTM D5185m	>78	73	79	85
Chromium	ppm	ASTM D5185m	>2	1	<1	1
Nickel	ppm	ASTM D5185m	>3	1	1	2
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>5	3	2	3
_ead	ppm	ASTM D5185m	>11	9	9	10
Copper	ppm	ASTM D5185m	>84	74	76	72
Γin	ppm	ASTM D5185m	>4	3	2	4
/anadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	85	105	96
Barium	ppm	ASTM D5185m	0	0	0	<1
Nolybdenum	ppm	ASTM D5185m	0	<1	0	1
Manganese	ppm	ASTM D5185m		20	21	22
Magnesium	ppm	ASTM D5185m	145	21	13	23
Calcium	ppm	ASTM D5185m	3570	3147	3453	3212
Phosphorus	ppm	ASTM D5185m	1290	1060	1001	1134
Zinc	ppm	ASTM D5185m	1640	1190	1332	1320
Sulfur	ppm	ASTM D5185m		2808	3150	3121
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	10	10	9
Sodium	ppm	ASTM D5185m	>23	19	19	21
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Vater	%	ASTM D6304	>0.1669	0.063	0.059	0.050
ppm Water	ppm	ASTM D6304	>1669	631	592	508
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	386696	△ 359728	▲ 368858
Particles >6µm		ASTM D7647		<u>^</u> 202024	<u>^</u> 200546	<u>▲</u> 164286
Particles >14µm		ASTM D7647	>160	<u>^</u> 2491	<u>^</u> 2541	<u>489</u>
Particles >21µm		ASTM D7647	>40	<u> </u>	64	14
Particles >38µm		ASTM D7647	>10	2	1	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 26/25/18	<u>▲</u> 26/25/19	<u>\$\rightarrow\$ 26/25/16</u>
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2

Acid Number (AN)

mg KOH/g ASTM D8045 1.8

0.90

0.83



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Certificate L2367

Sample No. Lab Number

: WC0895315

: 06075757

Tested Diagnosed

Unique Number: 10857848 : 06 Feb 2024 - Jonathan Hester Test Package: IND 2 (Additional Tests: KF, KV100, PQ, VI)

: 06 Feb 2024

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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