

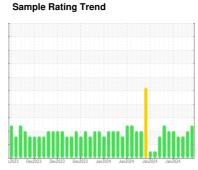
# **OIL ANALYSIS REPORT**

# 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.

IAL)		c2023 Dec20	23 Dec2023 Dec2023	Jan2024 Jan2024 Jan2024 .	Jan 2024	
SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0906346	WC0895315	WC0895314
Sample Date		Client Info		01 Feb 2024	31 Jan 2024	30 Jan 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	78	63	52
Iron	ppm	ASTM D5185m	>78	81	73	79
Chromium	ppm	ASTM D5185m	>2	1	1	<1
Nickel	ppm	ASTM D5185m	>3	2	1	1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>5	4	3	2
Lead	ppm	ASTM D5185m	>11	10	9	9
Copper	ppm	ASTM D5185m	>84	76	74	76
Tin	ppm	ASTM D5185m	>4	4	3	2
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	92	85	105
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	<1	0
Manganese	ppm	ASTM D5185m		23	20	21
Magnesium	ppm	ASTM D5185m	145	26	21	13
Calcium	ppm	ASTM D5185m	3570	3407	3147	3453
	ppm	ASTM D5185m	1290	1166	1060	1001
Zinc	ppm	ASTM D5185m	1640	1418	1190	1332
Sulfur	ppm	ASTM D5185m		3198	2808	3150
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	10	10	10
Sodium	ppm	ASTM D5185m	>23	19	19	19
	ppm	ASTM D5185m	>20	3	0	0
Water	%	ASTM D6304	>0.1669	0.063	0.063	0.059
ppm Water	ppm	ASTM D6304	>1669	640	631	592
FLUID CLEANLINE	SS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	<u>▲</u> 312341	▲ 386696	▲ 359728
Particles >6µm		ASTM D7647	>1300	<u> </u>	<u>▲</u> 202024	<u>^</u> 200546
Particles >14µm		ASTM D7647	>160	<u> </u>	<u>^</u> 2491	<u>^</u> 2541
Particles >21µm		ASTM D7647	>40	<u> </u>	<u></u> 218	64
Particles >38µm		ASTM D7647	>10	<u> </u>	2	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>25/25/20</b>	<u>\$\text{\Delta}\$ 26/25/18</u>	<u>\$\text{\Delta}\$ 26/25/19</u>
FLUID DEGRADAT	ION	method	limit/base	current	history1	history2
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Acid Number (AN)

mg KOH/g ASTM D8045 1.8

0.85

0.90



# OIL ANALYSIS REPORT





Certificate L2367

Laboratory Sample No. Lab Number

: WC0906346

Received : 06076835 **Tested Unique Number** : 10858926 Diagnosed

Test Package: IND 2 (Additional Tests: KF, KV100, PQ, VI) 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)

: 01 Feb 2024

: 07 Feb 2024

: 07 Feb 2024 - Jonathan Hester

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