

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 Jan20	24 Jan2024 Jan2024	Jan2024 Feb2024 Feb2024	Feb 2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0906371	WC0906368	WC0906367
Sample Date		Client Info		26 Feb 2024	23 Feb 2024	22 Feb 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	76	90	57
ron	ppm	ASTM D5185m	>78	106	136	139
Chromium	ppm	ASTM D5185m	>2	1	2	1
Nickel	ppm	ASTM D5185m	>3	2	3	1
Γitanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>5	3	2	4
_ead	ppm	ASTM D5185m	>11	9	9	9
Copper	ppm	ASTM D5185m	>84	84	93	82
Γin	ppm	ASTM D5185m	>4	4	5	4
/anadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	100	105	95
Barium	ppm	ASTM D5185m	0	<1	0	0
Nolybdenum	ppm	ASTM D5185m	0	0	<1	0
Manganese	ppm	ASTM D5185m		24	24	26
//agnesium	ppm	ASTM D5185m	145	17	21	17
Calcium	ppm	ASTM D5185m	3570	3150	3351	3495
Phosphorus	ppm	ASTM D5185m	1290	1063	1046	1164
Zinc	ppm	ASTM D5185m	1640	1228	1353	1426
Sulfur	ppm	ASTM D5185m		2836	3588	3171
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	11	13	11
Sodium	ppm	ASTM D5185m	>23	24	18	20
Potassium	ppm	ASTM D5185m	>20	0	2	0
Vater	%	ASTM D6304	>0.1669	0.051	0.058	0.060
ppm Water	ppm	ASTM D6304	>1669	519	582	608
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	▲ 374984	▲ 410973	▲ 175824
Particles >6µm		ASTM D7647	>1300	<u>239536</u>	<u>^</u> 212407	▲ 138882
Particles >14µm		ASTM D7647	>160	<u> </u>	▲ 2829	<u>▲</u> 18154
Particles >21µm		ASTM D7647	>40	<u> </u>	<u>^</u> 247	<u></u> 1418
Particles >38µm		ASTM D7647	>10	7	8	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	26/25/20	<u>^</u> 26/25/19	<u>\$\text{\scale}\$ 25/24/21</u>
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2

Acid Number (AN)

mg KOH/g ASTM D8045 1.8

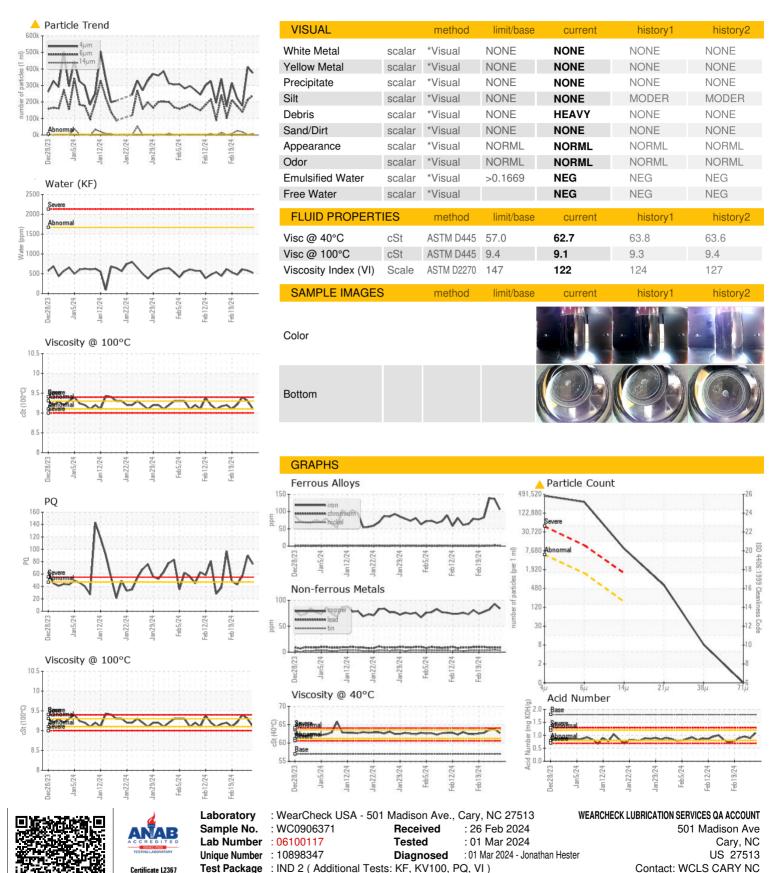
1.09

0.89

0.95



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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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