

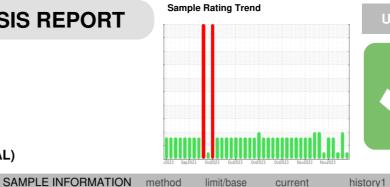
## **OIL ANALYSIS REPORT**

## MCLSNC **QC230801HY**

Component

Hydraulic System
Fluid

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



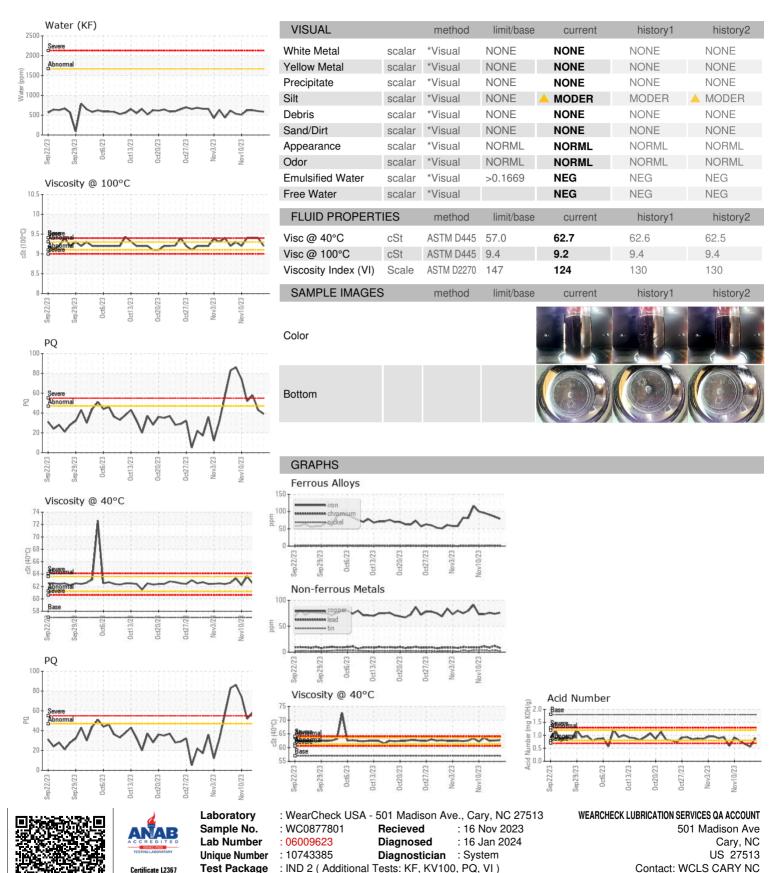


DIAGNOSIS		

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0877801	WC0877800	WC0877799
Sample Date		Client Info		16 Nov 2023	15 Nov 2023	14 Nov 2023
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	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>47	39	43	<b>58</b>
Iron	ppm	ASTM D5185m	>78	<u>^</u> 79	85	<b>9</b> 1
Chromium	ppm	ASTM D5185m	>2	1	1	1
Nickel	ppm	ASTM D5185m	>3	2	2	2
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>5	1	3	3
Lead	ppm	ASTM D5185m	>11	8	12	9
Copper	ppm	ASTM D5185m	>84	76	74	76
Tin	ppm	ASTM D5185m	>4	2	4	3
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	101	97	92
Barium	ppm	ASTM D5185m	0	<b>8</b>	<1	0
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m		<b>2</b> 0	22	<u>^</u> 22
Magnesium	ppm	ASTM D5185m	145	<b>2</b> 0	27	22
Calcium	ppm	ASTM D5185m	3570	<u>▲</u> 3122	3535	3288
Phosphorus	ppm	ASTM D5185m	1290	<u> </u>	1264	1117
Zinc	ppm	ASTM D5185m	1640	1290	1576	1394
Sulfur	ppm	ASTM D5185m		3442	3631	3278
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	9	10	10
Sodium	ppm	ASTM D5185m	>23	14	19	18
Potassium	ppm	ASTM D5185m		2	<1	2
Water	%	ASTM D6304	>0.1669	0.058	0.060	0.062
ppm Water	ppm	ASTM D6304	>1669	588.0	601.7	624.9
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000		<u> </u>	
Particles >6µm		ASTM D7647	>1300		<u>124262</u>	
Particles >14μm		ASTM D7647	>160		<u> </u>	
Particles >21μm		ASTM D7647	>40		<u></u> ▲ 51	
Particles >38µm		ASTM D7647	>10		0	
Particles >71µm		ASTM D7647	>3		0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14		<u>\$\text{\Delta}\$ 25/24/18</u>	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	0.89	0.562	0.663



## OIL ANALYSIS REPORT



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)

Certificate L2367

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