

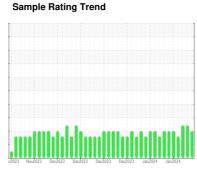
OIL ANALYSIS REPORT

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.

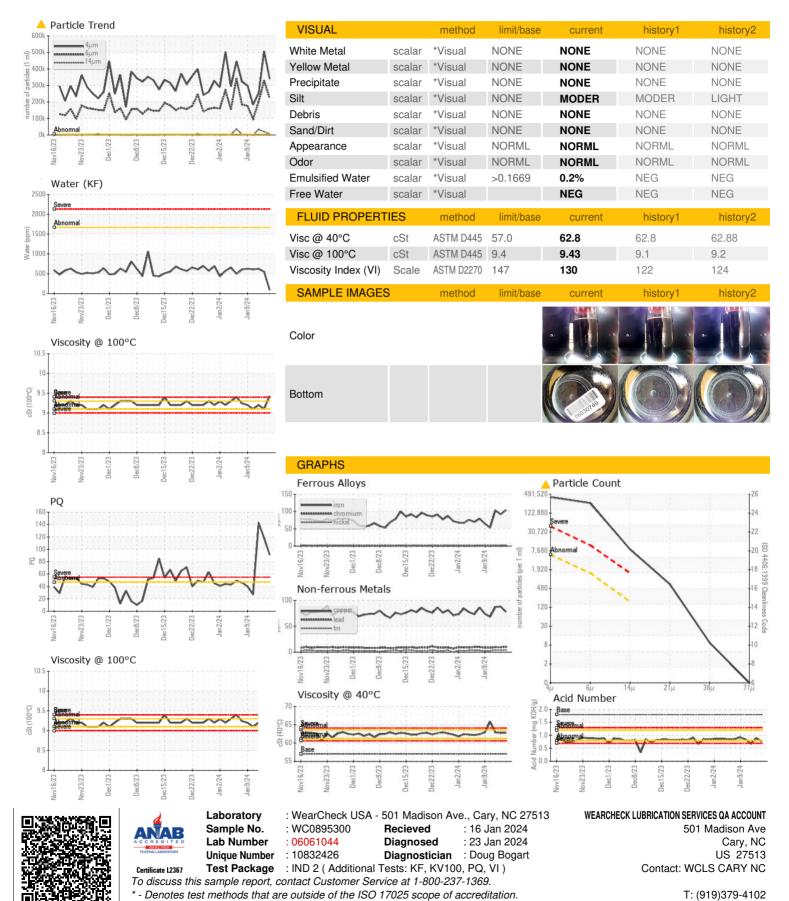
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

7/2023 New2023 Dec2023 Dec2023 Dec2023 Jan2024 Jan2024						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0895300	WC0895296	WC0895295
Sample Date		Client Info		16 Jan 2024	12 Jan 2024	11 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	91	118	143
Iron	ppm	ASTM D5185m	>78	104	92	103
Chromium	ppm	ASTM D5185m	>2	1	1	1
Nickel	ppm	ASTM D5185m	>3	2	2	2
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>5	3	2	2
Lead	ppm	ASTM D5185m	>11	10	9	10
Copper	ppm	ASTM D5185m	>84	78	88	87
Tin	ppm	ASTM D5185m	>4	4	4	4
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	93	100	101
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	<1
Manganese	ppm	ASTM D5185m		24	26	27
Magnesium	ppm	ASTM D5185m	145	18	21	22
Calcium	ppm	ASTM D5185m	3570	3260	3657	3647
Phosphorus	ppm	ASTM D5185m	1290	1159	1115	1109
Zinc	ppm	ASTM D5185m	1640	1415	1452	1455
Sulfur	ppm	ASTM D5185m		3208	3559	3544
CONTAMINANTS	,	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	11	10	11
Sodium	ppm	ASTM D5185m	>23	20	16	17
Potassium	ppm	ASTM D5185m	>20	0	2	2
Water	%	ASTM D6304	>0.1669	0.008	0.054	0.062
ppm Water	ppm	ASTM D6304	>1669	90	549	624
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	▲ 339828	▲ 506092	△ 252051
Particles >6µm		ASTM D7647	>1300	<u>^</u> 221421	<u>▲</u> 328828	<u>^</u> 200724
Particles >14μm		ASTM D7647	>160	<u>^</u> 7443	<u>19738</u>	<u>▲</u> 32853
Particles >21µm		ASTM D7647	>40	<u>▲</u> 578	△ 2990	<u></u> 3594
Particles >38µm		ASTM D7647	>10	8	△ 53	<u>^</u> 20
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 26/25/20	<u>△</u> 26/26/21	<u>\$\text{\Delta}\$ 25/25/22</u>
FLUID DEGRADA	TION	method	limit/base	current	history1	history2



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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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