

OIL ANALYSIS REPORT

WCLSNC Machine Id 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

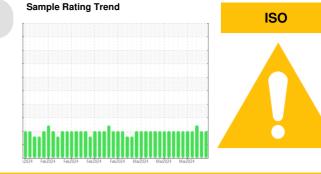
All component wear rates are normal.

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.

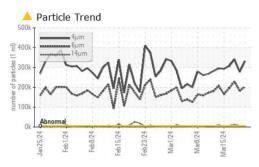


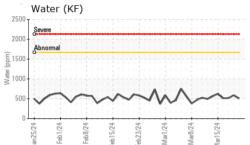
SAMPLE INFORM		method	limit/base	current	history1	history2
			in the base			
Sample Number		Client Info		WC0916248	WC0916247	WC0916246
Sample Date		Client Info		21 Mar 2024	20 Mar 2024	19 Mar 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>47	12	57	71
Iron	ppm	ASTM D5185m	>78	87	61	72
Chromium	ppm	ASTM D5185m	>2	<1	<1	<1
Nickel	ppm	ASTM D5185m	>3	<1	<1	1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>5	3	3	3
Lead	ppm	ASTM D5185m	>11	9	9	9
Copper	ppm	ASTM D5185m	>84	81	75	77
Tin	ppm	ASTM D5185m	>4	4	4	3
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m	6	97	90	95
Barium	ppm	ASTM D5185m		0	2	0
	ppm			۰ <1	0	0
Molybdenum	ppm	ASTM D5185m	0		20	21
Manganese	ppm	ASTM D5185m	145	23 23	20	12
Magnesium Calcium	ppm	ASTM D5185m	3570	23 3583		3587
	ppm	ASTM D5185m			3448	
Phosphorus	ppm	ASTM D5185m	1290	1188	1152	1152
Zinc	ppm	ASTM D5185m	1640	1423	1408	1418
Sulfur	ppm	ASTM D5185m		4096	3789	3727
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	11	9	9
Sodium	ppm	ASTM D5185m	>23	21	20	18
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.1669	0.050	0.059	0.051
ppm Water	ppm	ASTM D6304	>1669	505	590	516
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	A 331454	A 277656	▲ 341964
Particles >6µm		ASTM D7647	>1300	<u> </u>	1 81025	A 229788
Particles >14µm		ASTM D7647	>160	4924	▲ 5549	🔺 11441
Particles >21µm		ASTM D7647	>40	<u> </u>	<u> </u>	1231
Particles >38µm		ASTM D7647	>10	2	2	A 21
Particles >71µm		ASTM D7647	>3	0	0	2
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 26/25/19	▲ 25/25/20	▲ 26/25/21
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	0.844	0.94	1.539
1.02.08) Dov: 1	3		-			Submitted By:

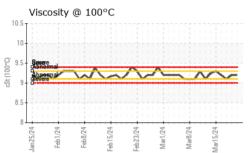
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PQ 140

100

8

40

20

10

cSt (100°C)

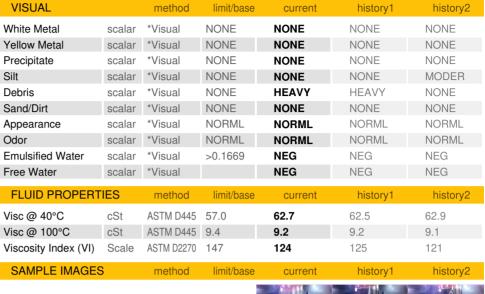
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C/JC/us

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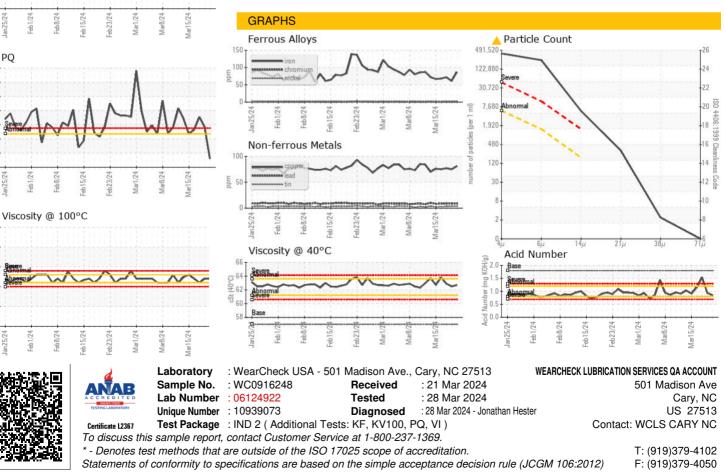
Dd



Color



Bottom



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Submitted By: ?