

OIL ANALYSIS REPORT

Area 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.



		method	iiiiii/base	Guildin	TIStory I	mstoryz
Sample Number		Client Info		WC0895302	WC0895301	WC0895300
Sample Date		Client Info		18 Jan 2024	17 Jan 2024	16 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	21	55	91
Iron	ppm	ASTM D5185m	>78	54	95	104
Chromium	ppm	ASTM D5185m	>2	<1	1	1
Nickel	ppm	ASTM D5185m	>3	1	2	2
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>5	2	3	3
Lead	ppm	ASTM D5185m	>11	9	9	10
Copper	ppm	ASTM D5185m	>84	69	79	78
Tin	ppm	ASTM D5185m	>4	3	3	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	87	101	93
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		16	24	24
Magnesium	ppm	ASTM D5185m	145	24	21	18
Calcium	ppm	ASTM D5185m	3570	3215	3941	3260
Phosphorus	ppm	ASTM D5185m	1290	1152	1183	1159
Zinc	ppm	ASTM D5185m	1640	1363	1412	1415
Sulfur	ppm	ASTM D5185m		3116	3507	3208
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	8	11	11
Sodium	ppm	ASTM D5185m	>23	16	20	20
Potassium	ppm	ASTM D5185m	>20	<1	2	0
Water	%	ASTM D6304	>0.1669	0.064	0.068	0.008
ppm Water	ppm	ASTM D6304	>1669	642	681	90
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	A 207895	198271	▲ 339828
Particles >6µm		ASTM D7647	>1300	<u> </u>	1 37309	🔺 221421
Particles >14µm		ASTM D7647	>160	<u> </u>	6 5979	A 7443
Particles >21µm		ASTM D7647	>40	4	<u> </u>	<mark>▲</mark> 578
Particles >38µm		ASTM D7647	>10	0	0	8
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 25/24/15	▲ 25/24/20	▲ 26/25/20
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	ma KOH/a	ASTM D8045	1.8	0.85	1 0/3	0.766

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Submitted By: ?



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