

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Area WCLSNC Machine Id QC230801HY

Hydraulic System

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

DIAGNOSIS

Recommendation

Wear

Contamination

Fluid Condition

DIAGNOSIS	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		WC0929392	WC0929389	WC0929388
We recommend you service the filters on this	Sample Date		Client Info		08 Apr 2024	05 Apr 2024	04 Apr 2024
component. Resample at the next service interval to	Machine Age	hrs	Client Info		0	0	0
monitor.	Oil Age	hrs	Client Info		0	0	0
Wear	Oil Changed		Client Info		N/A	N/A	N/A
All component wear rates are normal.	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Contamination There is a high amount of particulates present in	WEAR METALS		method	limit/base	current	history1	history2
the oil.	PQ		ASTM D8184	>47	34	97	47
Fluid Condition	Iron	ppm	ASTM D5185m	>78	70	65	81
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Chromium	ppm	ASTM D5185m	>2	1	<1	2
	Nickel	ppm	ASTM D5185m	>3	2	2	2
	Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m		4	3	3
	Lead	ppm	ASTM D5185m	>11	9	9	10
	Copper	ppm	ASTM D5185m	>84	79	78	84
	Tin	ppm	ASTM D5185m	>4	3	3	4
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	Cadmium	ppm	ASTM D5185m		0	0	<1
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	6	107	99	125
	Barium	ppm	ASTM D5185m		0	0	<1
	Molybdenum	ppm	ASTM D5185m		0	0	2
	Manganese	ppm	ASTM D5185m		21	19	24
	Magnesium	ppm	ASTM D5185m	145	23	21	43
	Calcium	ppm	ASTM D5185m	3570	3767	3514	3619
	Phosphorus	ppm		1290	1263	1068	1213
	Zinc	ppm	ASTM D5185m		1498	1354	1463
	Sulfur	ppm	ASTM D5185m		3912	3770	3777
	CONTAMINANTS	6	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>11	10	8	11
	Sodium	ppm	ASTM D5185m	>23	21	17	19
	Potassium	ppm	ASTM D5185m	>20	2	2	2
	Water	%	ASTM D6304	>0.1669	0.054	0.064	0.053
	ppm Water	ppm	ASTM D6304		543	645	536
	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
	Particles >4µm		ASTM D7647	>5000	A 271088	▲ 289459	290786
	Particles >6µm		ASTM D7647	>1300	<u> </u>	▲ 226223	▲ 186490
	Particles >14µm		ASTM D7647	>160	<u> </u>	▲ 27905	4 727
	Particles >21µm		ASTM D7647	>40	🔺 1855	A 2494	<u> </u>
	Particles >38µm		ASTM D7647	>10	10	1 21	3
	Particles >71µm		ASTM D7647	>3	0	1	1
	Oil Cleanliness		ISO 4406 (c)		<u> </u>	▲ 25/25/22	▲ 25/25/19
	FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	0.95	0.89	0.97
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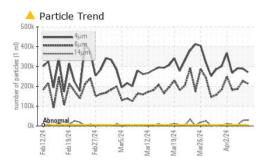
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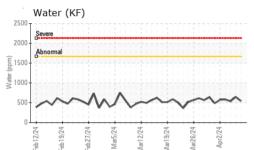


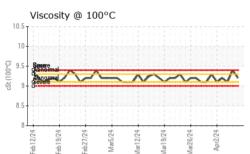
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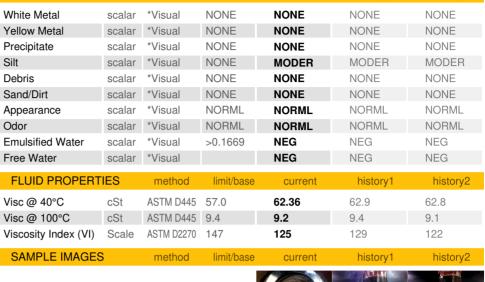
method

VISUAL









limit/base

current

Color

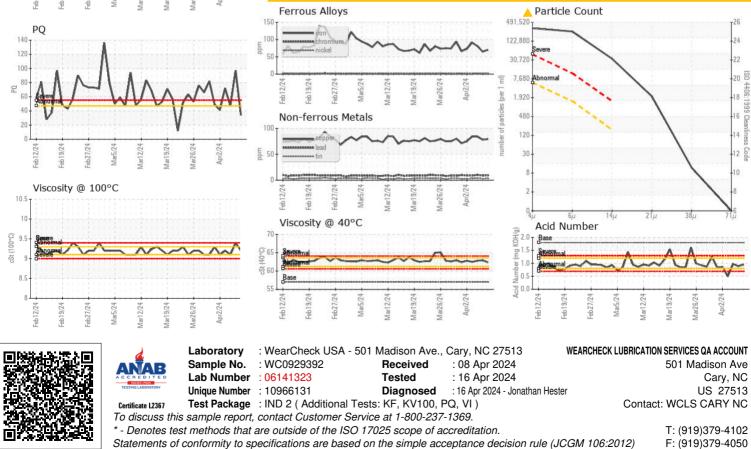
Bottom

GRAPHS



history1

history2



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

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