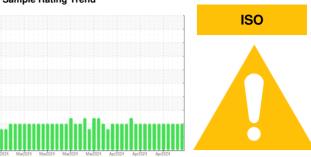


OIL ANALYSIS REPORT

Sample Rating Trend



WCLSNC Machine to QC230801HY

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.

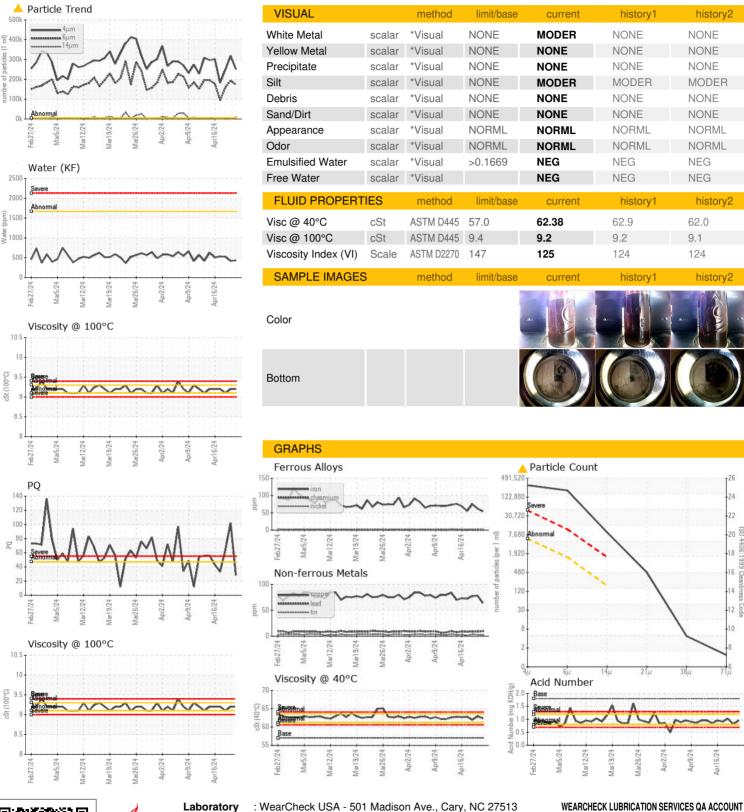
Fluid Condition

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

SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0929406	WC0929403	WC0929402
Sample Date		Client Info		22 Apr 2024	19 Apr 2024	18 Apr 2024
	hrs	Client Info		0	0	0
	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	28	102	64
Iron	ppm	ASTM D5185m	>78	54	62	75
Chromium	ppm	ASTM D5185m	>2	<1	<1	<1
Nickel	ppm	ASTM D5185m	>3	0	<1	1
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>5	2	2	3
Lead	ppm	ASTM D5185m	>11	10	9	9
Copper	ppm	ASTM D5185m	>84	64	78	77
Tin	ppm	ASTM D5185m	>4	2	3	3
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	90	117	111
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		17	18	21
Magnesium	ppm	ASTM D5185m	145	23	23	23
Calcium	ppm	ASTM D5185m	3570	3324	3459	3463
Phosphorus	ppm	ASTM D5185m	1290	1017	1212	1179
Zinc	ppm	ASTM D5185m	1640	1320	1421	1401
Sulfur	ppm	ASTM D5185m		3733	3946	3794
CONTAMINANTS		method	limit/base	current	history1	history2
	ppm	ASTM D5185m		8	9	9
Sodium	ppm	ASTM D5185m	>23	14	21	21
	ppm	ASTM D5185m	>20	0	0	2
	%	ASTM D6304	>0.1669	0.043	0.041	0.052
ppm Water	ppm	ASTM D6304	>1669	435	418	525
FLUID CLEANLINE	SS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u>^</u> 251339	△ 318709	<u>▲</u> 248924
Particles >6µm		ASTM D7647	>1300	<u> </u>	<u>194189</u>	<u>▲</u> 159777
Particles >14µm		ASTM D7647	>160	^ 7999	▲ 3262	<u>▲</u> 3927
Particles >21µm		ASTM D7647	>40	426	▲ 87	<u>125</u>
Particles >38µm		ASTM D7647	>10	4	1	0
Particles >71µm		ASTM D7647		1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	25/25/20	<u>\$\text{\Delta}\$ 25/25/19</u>	<u>\$\text{\Delta}\$ 25/24/19</u>
FLUID DEGRADAT	ION	method	limit/base	current	history1	history2



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number

: WC0929406 : 06155937 Unique Number: 10991360

Tested : 26 Apr 2024 Diagnosed : 26 Apr 2024 - Jonathan Hester

Received

: 22 Apr 2024

Test Package : IND 2 (Additional Tests: KF, KV100, PQ, VI) To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - 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)

T: (919)379-4102 F: (919)379-4050

Contact: WCLS CARY NC

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Cary, NC

US 27513