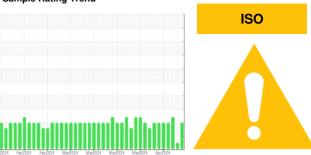


OIL ANALYSIS REPORT

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.

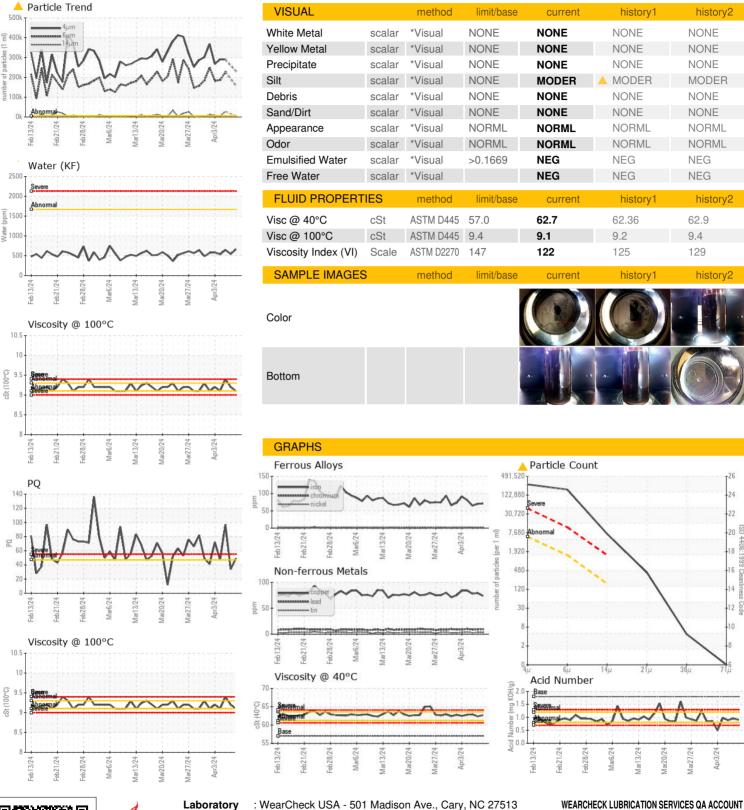
Fluid Condition

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

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0929393	WC0929392	WC0929389
Sample Date		Client Info		09 Apr 2024	08 Apr 2024	05 Apr 2024
Machine Age	hrs	Client Info		03 Apr 2024 0	00 Apr 2024	03 Apr 2024
Oil Age	hrs	Client Info		0	0	0
Oil Changed	1115	Client Info		N/A	N/A	N/A
Sample Status		Ciletit iiiio		ABNORMAL		ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>47	49	34	97
	000			71	70	
ron	ppm	ASTM D5185m				65
Chromium	ppm	ASTM D5185m	>2	1	1	<1
Nickel	ppm	ASTM D5185m		1	2	2
Fitanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>5	3	4	3
Lead	ppm	ASTM D5185m	>11	9	9	9
Copper	ppm	ASTM D5185m	>84	74	79	78
Γin	ppm	ASTM D5185m	>4	3	3	3
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	96	107	99
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		19	<u>^</u> 21	19
Magnesium	ppm	ASTM D5185m	145	23	23	21
Calcium	ppm	ASTM D5185m	3570	3449	3767	3514
Phosphorus	ppm	ASTM D5185m	1290	1079	<u>▲</u> 1263	1068
Zinc	ppm	ASTM D5185m	1640	1349	1498	1354
Sulfur	ppm	ASTM D5185m		3846	3912	3770
CONTAMINANTS	i	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	10	10	8
Sodium	ppm	ASTM D5185m	>23	19	21	17
Potassium	ppm	ASTM D5185m	>20	0	2	2
Nater	%	ASTM D6304	>0.1669	0.066	0.054	0.064
opm Water	ppm	ASTM D6304	>1669	664	543	645
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u>231344</u>		289459
Particles >6µm		ASTM D7647	>1300	<u> </u>		<u>^</u> 226223
Particles >14µm		ASTM D7647	>160	6219		<u>^</u> 27905
Particles >21µm		ASTM D7647	>40	△ 367		<u>^</u> 2494
Particles >38µm		ASTM D7647	>10	4		<u>^</u> 21
Particles >71µm		ASTM D7647	>3	0		1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>\$\text{\sigma}\$ 25/24/20</u>		<u>△</u> 25/25/22
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	ma K∩⊔/a	VCTM DOUVE	1.0	0.00	0.05	0.00



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number Unique Number: 10967833

: WC0929393

: 06143025

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 09 Apr 2024 **Tested**

: 15 Apr 2024 Diagnosed

: 15 Apr 2024 - Jonathan Hester

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) 501 Madison Ave

T: (919)379-4102

F: (919)379-4050

Contact: WCLS CARY NC

Cary, NC

US 27513