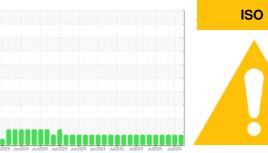


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

QC240601HY

Component Hydraulic System

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 6 microns in size) present in the oil.

Fluid Condition

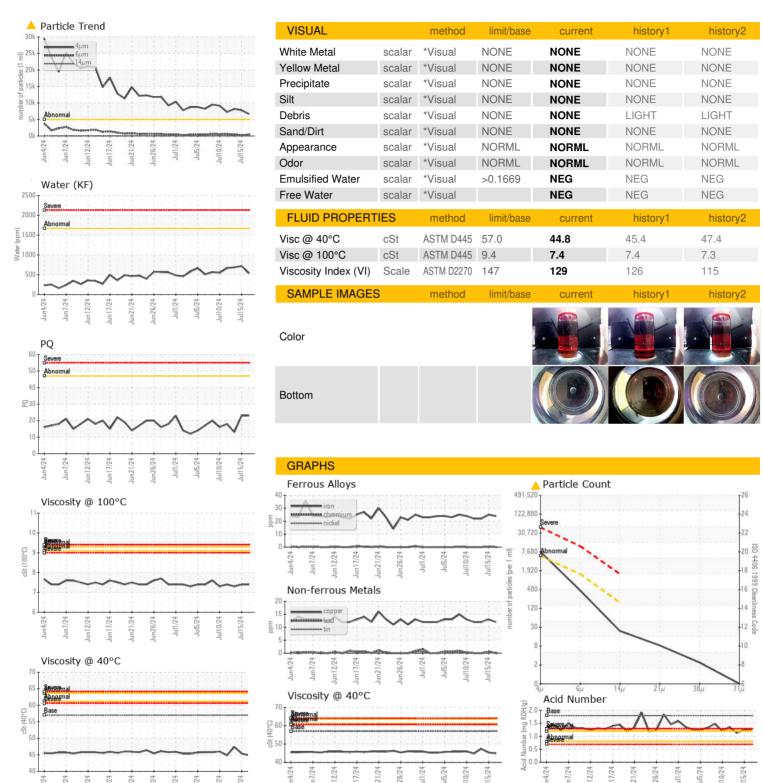
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0961086	WC0961085	WC0961082
Sample Date		Client Info		16 Jul 2024	15 Jul 2024	12 Jul 2024
Machine Age	hrs	Client Info		0	0	0
J	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				MARGINAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>47	23	23	13
Iron	ppm	ASTM D5185m	>78	24	25	22
Chromium	ppm	ASTM D5185m	>2	0	<1	0
Nickel	ppm	ASTM D5185m	>3	0	<1	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>5	2	2	1
Lead	ppm	ASTM D5185m	>11	0	<1	0
Copper	ppm	ASTM D5185m	>84	12	13	12
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	0	2	<1
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	0	0	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	145	87	88	77
Calcium	ppm	ASTM D5185m	3570	3273	3285	3223
Phosphorus	ppm	ASTM D5185m	1290	1031	1042	959
Zinc	ppm	ASTM D5185m	1640	1154	1232	1073
Sulfur	ppm	ASTM D5185m		3892	3413	3619
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	15	14	13
Sodium	ppm	ASTM D5185m	>23	9	6	10
Potassium	ppm	ASTM D5185m	>20	0	3	1
Water	%	ASTM D6304	>0.1669	0.053	0.071	0.068
ppm Water	ppm	ASTM D6304	>1669	538	719	688
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	△ 6674	▲ 7776	▲ 8177
Particles >6µm		ASTM D7647	>1300	389	279	422
Particles >14μm		ASTM D7647	>160	20	11	12
Particles >21µm		ASTM D7647	>40	7	5	5
Particles >38µm		ASTM D7647	>10	2	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 20/16/11	<u>^</u> 20/15/11	<u>^</u> 20/16/11
FLUID DEGRADAT	ΓΙΟΝ	method	limit/base	current	history1	history2
	1/011/	4 OT1 4 D00 15	4.0		4.05	4.40

1.23



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06237785

: WC0961086 Unique Number : 11126619

Received : 16 Jul 2024 **Tested**

: 17 Jul 2024 Diagnosed

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

Contact: WCLS CARY NC

501 Madison Ave

Cary, NC

US 27513

WEARCHECK LUBRICATION SERVICES QA ACCOUNT