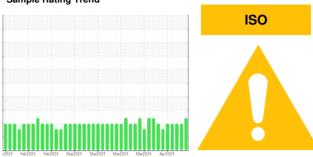


OIL ANALYSIS REPORT

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.

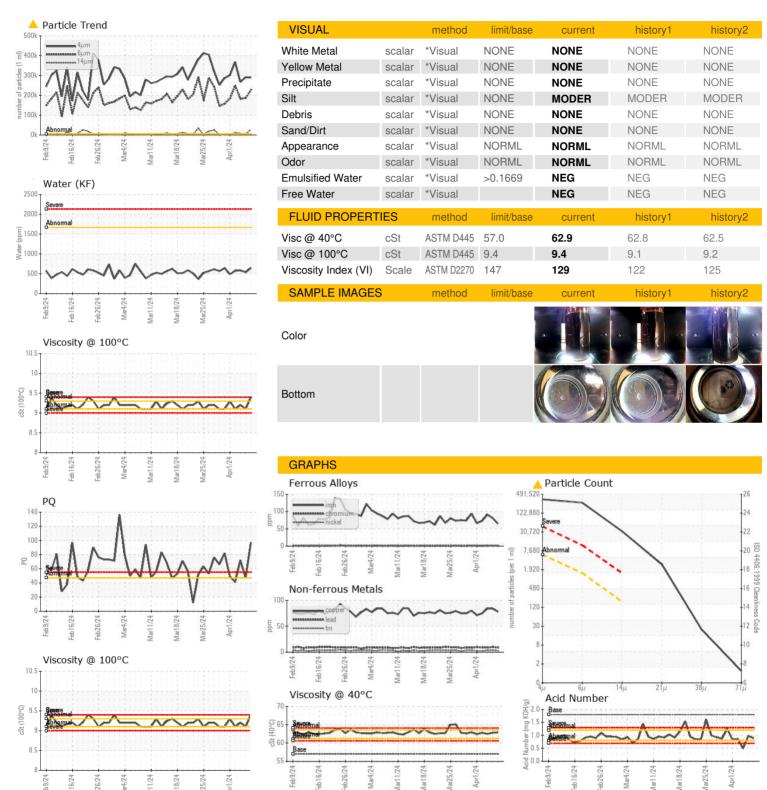
Fluid Condition

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

AL)		52024 Feb20	24 Feb2024 Mar2024	Mar2024 Mar2024 Mar2024	Apr2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0929389	WC0929388	WC0929387
Sample Date		Client Info		05 Apr 2024	04 Apr 2024	03 Apr 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	97	47	72
Iron	ppm	ASTM D5185m	>78	65	81	91
Chromium	ppm	ASTM D5185m	>2	<1	2	1
Nickel	ppm	ASTM D5185m	>3	2	2	2
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>5	3	3	3
Lead	ppm	ASTM D5185m	>11	9	10	9
Copper	ppm	ASTM D5185m	>84	78	84	84
Tin	ppm	ASTM D5185m	>4	3	4	3
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	99	125	109
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	0	0	2	0
Manganese	ppm	ASTM D5185m		19	24	24
Magnesium	ppm	ASTM D5185m	145	21	43	23
Calcium	ppm	ASTM D5185m	3570	3514	3619	3687
Phosphorus	ppm	ASTM D5185m	1290	1068	1213	1262
Zinc	ppm	ASTM D5185m	1640	1354	1463	1482
Sulfur	ppm	ASTM D5185m		3770	3777	3670
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	8	11	10
Sodium	ppm	ASTM D5185m	>23	17	19	20
Potassium	ppm	ASTM D5185m	>20	2	2	2
Water	%	ASTM D6304	>0.1669	0.064	0.053	0.058
opm Water	ppm	ASTM D6304	>1669	645	536	585
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	289459	△ 290786	<u>^</u> 267103
Particles >6µm		ASTM D7647	>1300	<u>^</u> 226223	<u>▲</u> 186490	▲ 182757
Particles >14µm		ASTM D7647	>160	27905	<u></u> 4727	<u></u>
Particles >21µm		ASTM D7647	>40	<u> </u>	<u>^</u> 251	▲ 380
Particles >38µm		ASTM D7647	>10	<u> </u>	3	1
Particles >71µm		ASTM D7647	>3	1	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	25/25/22	<u>△</u> 25/25/19	2 5/25/20
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2



OIL ANALYSIS REPORT







Laboratory Sample No.

: WC0929389 Lab Number : 06139882 Unique Number : 10964690

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

: 05 Apr 2024 : 11 Apr 2024 Diagnosed

: 11 Apr 2024 - Jonathan Hester

Contact: WCLS CARY NC

WEARCHECK LUBRICATION SERVICES QA ACCOUNT

Test Package : IND 2 (Additional Tests: KF, KV100, PQ, VI) Certificate 12367 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 Submitted By: ?

501 Madison Ave

Cary, NC

US 27513