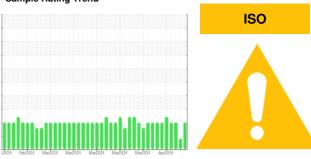


OIL ANALYSIS REPORT

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

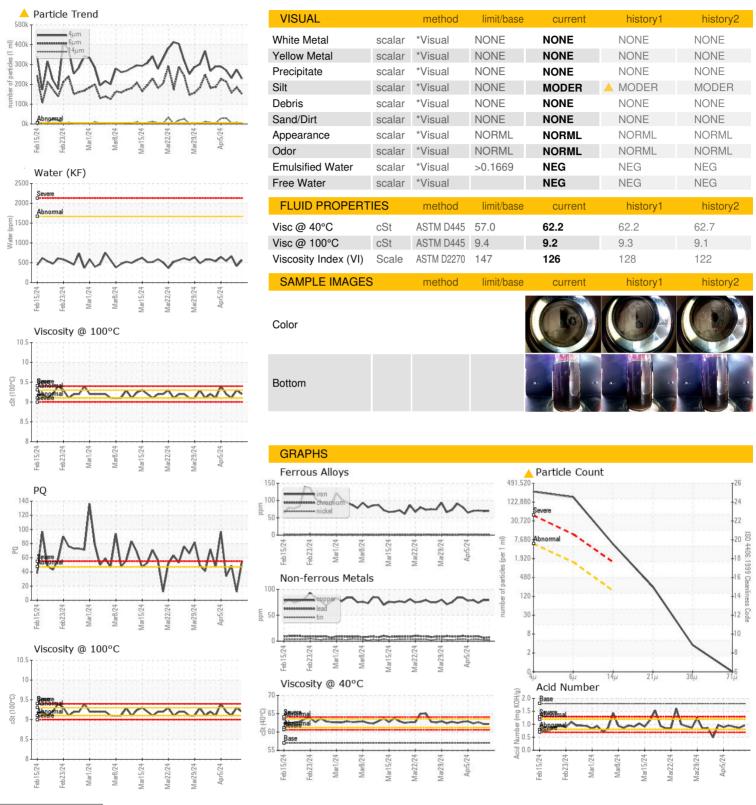
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0929395	WC0929394	WC0929393
Sample Date		Client Info		11 Apr 2024	10 Apr 2024	09 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	54	12	49
Iron	ppm	ASTM D5185m	>78	70	69	71
Chromium	ppm	ASTM D5185m	>2	<1	<1	1
Nickel	ppm	ASTM D5185m	>3	0	0	1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>5	1	2	3
Lead	ppm	ASTM D5185m	>11	7	7	9
Copper	ppm	ASTM D5185m	>84	79	79	74
Tin	ppm	ASTM D5185m	>4	2	3	3
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	103	101	96
Barium	ppm	ASTM D5185m	0	<1	0	<1
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		19	19	19
Magnesium	ppm	ASTM D5185m	145	22	21	23
Calcium	ppm	ASTM D5185m	3570	3327	3475	3449
	ppm	ASTM D5185m	1290	1139	1128	1079
Zinc	ppm	ASTM D5185m	1640	1315	1355	1349
Sulfur	ppm	ASTM D5185m		3518	3531	3846
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	9	9	10
Sodium	ppm	ASTM D5185m	>23	20	19	19
	ppm	ASTM D5185m	>20	0	0	0
	%	ASTM D6304	>0.1669	0.056	0.041	0.066
ppm Water	ppm	ASTM D6304	>1669	567	417	664
FLUID CLEANLINE	SS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	<u>227952</u>	274062	<u>▲</u> 231344
Particles >6µm		ASTM D7647	>1300	<u> </u>	▲ 183994	<u>▲</u> 158447
Particles >14μm		ASTM D7647	>160	4860	1 7436	<u>^</u> 6219
Particles >21μm		ASTM D7647	>40	<u>^</u> 215	456	▲ 367
Particles >38µm		ASTM D7647	>10	3	4	4
Particles >71μm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>25/24/19</u>	2 5/25/20	<u>△</u> 25/24/20
FLUID DEGRADAT	ION	method	limit/base	current	history1	history2

0.86



OIL ANALYSIS REPORT





Sample No.

Laboratory

: WC0929395 Lab Number : 06145860 Unique Number: 10975938

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

: 11 Apr 2024 **Tested** Diagnosed

: 18 Apr 2024 : 18 Apr 2024 - Jonathan Hester

501 Madison Ave Cary, NC US 27513 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

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