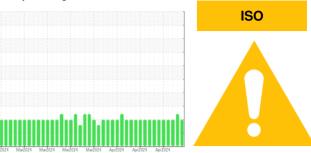


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

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

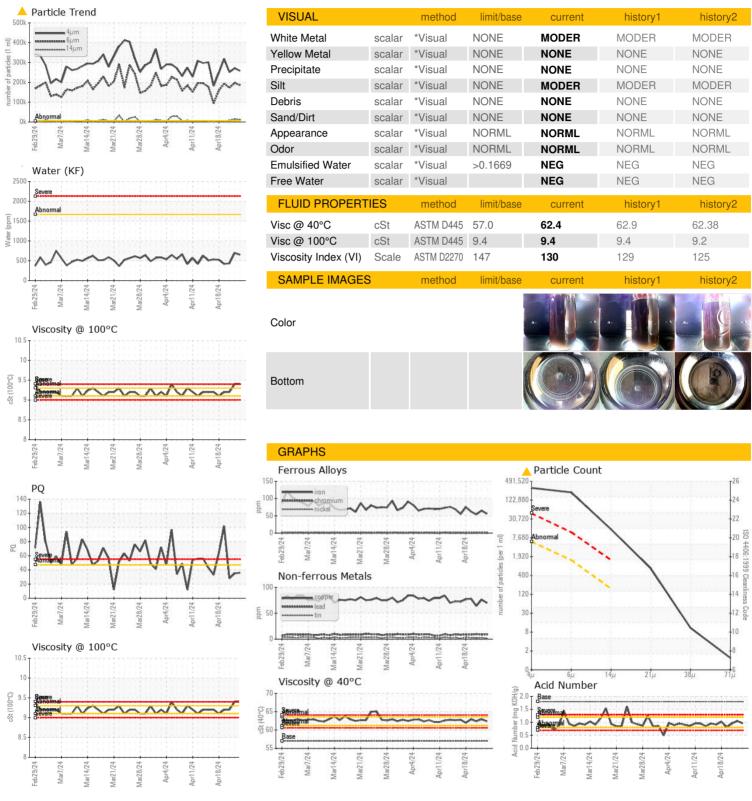
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0929408	WC0929407	WC0929406
Sample Date		Client Info		24 Apr 2024	23 Apr 2024	22 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	36	35	28
Iron	ppm	ASTM D5185m	>78	56	65	54
Chromium	ppm	ASTM D5185m	>2	<1	1	<1
Nickel	ppm	ASTM D5185m	>3	0	2	0
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>5	2	3	2
Lead	ppm	ASTM D5185m	>11	9	9	10
Copper	ppm	ASTM D5185m	>84	70	76	64
Tin	ppm	ASTM D5185m	>4	1	3	2
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	90	101	90
Barium	ppm	ASTM D5185m	0	<1	<1	<1
Molybdenum	ppm	ASTM D5185m	0	0	<1	0
Manganese	ppm	ASTM D5185m		16	19	17
Magnesium	ppm	ASTM D5185m	145	21	22	23
Calcium	ppm	ASTM D5185m	3570	3210	3436	3324
Phosphorus	ppm	ASTM D5185m	1290	1067	1119	1017
Zinc	ppm	ASTM D5185m	1640	1288	1421	1320
Sulfur	ppm	ASTM D5185m		3545	3536	3733
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	7	9	8
Sodium	ppm	ASTM D5185m	>23	17	17	14
Potassium	ppm	ASTM D5185m	>20	0	2	0
Water	%	ASTM D6304	>0.1669	0.064	0.069	0.043
ppm Water	ppm	ASTM D6304	>1669	649	695	435
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	258350	△ 271043	△ 251339
Particles >6µm		ASTM D7647	>1300	<u> </u>	▲ 197083	<u>▲</u> 172735
Particles >14μm		ASTM D7647	>160	<u> </u>	<u> </u>	△ 7999
Particles >21µm		ASTM D7647	>40	^ 708	△ 937	<u>426</u>
Particles >38µm		ASTM D7647	>10	9	1 3	4
Particles >71µm		ASTM D7647	>3	1	1	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>\$\text{\scale}\$ 25/25/21</u>	<u>△</u> 25/25/21	<u>△</u> 25/25/20
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

1.05



OIL ANALYSIS REPORT







Laboratory

Sample No.

Lab Number

: WC0929408

: 06159116 Unique Number: 10994539

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Apr 2024

Tested : 30 Apr 2024 Diagnosed

: 30 Apr 2024 - Jonathan Hester

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 F: (919)379-4050

501 Madison Ave

Cary, NC