

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.

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SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0939632	WC0939631	WC0939630
Sample Date		Client Info		10 May 2024	09 May 2024	08 May 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
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>47	57	42	198
Iron	ppm	ASTM D5185m	>78	91	66	84
Chromium	ppm	ASTM D5185m	>2	1	<1	1
Nickel	ppm	ASTM D5185m	>3	2	0	<1
Titanium	ppm	ASTM D5185m	>2	<1	0	<1
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>5	2	2	3
Lead	ppm	ASTM D5185m	>11	9	8	10
Copper	ppm	ASTM D5185m	>84	86	78	77
Tin	ppm	ASTM D5185m	>4	3	3	3
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	122	105	99
Barium	ppm	ASTM D5185m	0	<1	1	1
Molybdenum	ppm	ASTM D5185m	0	0	0	2
Manganese	ppm	ASTM D5185m		23	18	25
Magnesium	ppm	ASTM D5185m	145	21	23	52
Calcium	ppm	ASTM D5185m	3570	3500	3517	3431
Phosphorus	ppm	ASTM D5185m	1290	1236	1199	1167
Zinc	ppm	ASTM D5185m	1640	1419	1401	1439
Sulfur	ppm	ASTM D5185m		3578	3760	3852
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	10	9	11
Sodium	ppm	ASTM D5185m	>23	19	17	21
Potassium	ppm	ASTM D5185m	>20	3	0	2
Water	%	ASTM D6304	>0.1669	0.061	0.058	0.057
opm Water	ppm	ASTM D6304	>1669	613	582	577
FLUID CLEANLINE	SS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	△ 391605	▲ 313172	△ 275003
Particles >6µm		ASTM D7647	>1300	<u> </u>	▲ 221599	<u>▲</u> 196415
Particles >14µm		ASTM D7647	>160	<u> </u>	▲ 10616	<u> </u>
Particles >21µm		ASTM D7647	>40	<u></u> ▲ 86	▲ 623	<u> </u> 765
Particles >38µm		ASTM D7647	>10	0	3	15
Particles >71µm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 26/25/18	2 5/25/21	<u>△</u> 25/25/21
FLUID DEGRADAT	ION	method	limit/base	current	history1	history2

0.93



OIL ANALYSIS REPORT





Laboratory Sample No. Lab Number

Unique Number : 11021503

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0939632 Received : 06175450

: 10 May 2024 **Tested** Diagnosed

: 16 May 2024 : 16 May 2024 - Jonathan Hester

Cary, NC US 27513 Contact: WCLS CARY NC

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)

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