

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.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 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 INFORMATION		method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0952775	WC0952772	WC0952771	
Sample Date		Client Info		17 Jun 2024	14 Jun 2024	n 2024 13 Jun 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	15	20	18	
Iron	ppm	ASTM D5185m	>78	25	22	23	
Chromium	ppm	ASTM D5185m	>2	<1	0	0	
Nickel	ppm	ASTM D5185m	>3	<1	0	0	
Titanium	ppm	ASTM D5185m	>2	<1	0	0	
Silver	ppm	ASTM D5185m	>2	<1	2	<1	
Aluminum	ppm	ASTM D5185m	>5	2	2	2	
Lead	ppm	ASTM D5185m	>11	<1	<1	0	
Copper	ppm	ASTM D5185m	>84	13	12	12	
Tin	ppm	ASTM D5185m	>4	<1	<1	0	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		<1	<1	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	6	3	4	<1	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	0	1	1	0	
Manganese	ppm	ASTM D5185m		1	1	<1	
Magnesium	ppm	ASTM D5185m	145	86	65	81	
Calcium	ppm	ASTM D5185m	3570	3253	2937	3192	
Phosphorus	ppm	ASTM D5185m	1290	947	880	974	
Zinc	ppm	ASTM D5185m	1640	1197	1093	1138	
Sulfur	ppm	ASTM D5185m		3563	3505	3750	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>11	15	13	14	
Sodium	ppm	ASTM D5185m	>23	7	7	10	
Potassium	ppm	ASTM D5185m	>20	2	4	0	
Water	%	ASTM D6304	>0.1669	0.049	0.026	0.034	
ppm Water	ppm	ASTM D6304	>1669	495	267	343	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>5000	🔺 17644	🔺 14761	2 0739	
Particles >6µm		ASTM D7647	>1300	<u> </u>	1233	<u> </u>	
Particles >14µm		ASTM D7647	>160	23	13	27	
Particles >21µm		ASTM D7647	>40	10	2	9	
Particles >38µm		ASTM D7647	>10	1	0	1	
Particles >71µm		ASTM D7647	>3	0	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 21/18/12	▲ 21/17/11	<u> </u>	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Acid Number (AN) 1:47:24) Rev: 1	mg KOH/g	ASTM D8045	1.8	1.39	1.28	1.31 Submitted By: ?	

Report Id: WEACARQA [WUSCAR] 06211604 (Generated: 06/23/2024 (



OIL ANALYSIS REPORT











VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1669	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
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Visc @ 40°C	cSt	ASTM D445	57.0	45.9	45.5	45.8
Visc @ 100°C	cSt	ASTM D445	9.4	7.6	7.4	7.5
Viscosity Index (VI)	Scale	ASTM D2270	147	132	126	128
SAMPLE IMAGES		method	limit/base	current	history1	history2
				- Chinese		

Color

Bottom





: 17 Jun 2024

: 18 Jun 2024

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

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Received

Diagnosed

Tested



T: (919)379-4102

F: (919)379-4050

Report Id: WEACARQA [WUSCAR] 06211604 (Generated: 06/23/2024 01:47:24) Rev: 1

Certificate 12367

Laboratory

Sample No.

Lab Number : 06211604

Unique Number : 11084468

: WC0952775

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Test Package : IND 2 (Additional Tests: KF, KV100, PQ, VI)