

OIL ANALYSIS REPORT

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QC240601HY Component Hydraulic System

JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

DIAGNOSIS

Machine Id

A 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 moderate amount of silt (particulates < 6 microns in size) present in the oil.

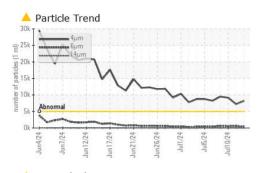
Fluid Condition

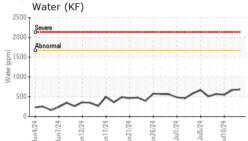
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

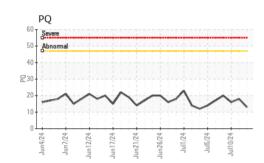
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0961082	WC0961081	WC0961080
Sample Date		Client Info		12 Jul 2024	11 Jul 2024	10 Jul 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	MARGINAL	MARGINAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>47	13	18	16
Iron	ppm	ASTM D5185m	>78	22	22	24
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>5	1	<1	2
Lead	ppm	ASTM D5185m	>11	0	0	<1
Copper	ppm	ASTM D5185m	>84	12	12	13
Tin	ppm	ASTM D5185m	>4	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	<1	4	2
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	145	77	93	83
Calcium	ppm	ASTM D5185m	3570	3223	3416	3216
Phosphorus	ppm	ASTM D5185m	1290	959	1094	1020
Zinc	ppm	ASTM D5185m	1640	1073	1258	1166
Sulfur	ppm	ASTM D5185m		3619	4354	3884
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	13	15	14
Sodium	ppm	ASTM D5185m	>23	10	8	9
Potassium	ppm	ASTM D5185m	>20	1	0	3
Water	%	ASTM D6304	>0.1669	0.068	0.066	0.054
ppm Water	ppm	ASTM D6304	>1669	688	665	549
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	A 8177	A 7236	4 9160
Particles >6µm		ASTM D7647	>1300	422	588	520
Particles >14µm		ASTM D7647	>160	12	22	20
Particles >21µm		ASTM D7647	>40	5	4	7
Particles >38µm		ASTM D7647	>10	0	1	1
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 20/16/11	▲ 20/16/12	▲ 20/16/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN) 4:08:51) Rev: 1	mg KOH/g	ASTM D8045	1.8	1.13	1.35	1.20 Submitted By: ?

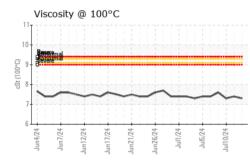


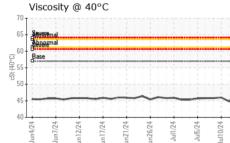
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	LIGHT
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
Visc @ 40°C	cSt	ASTM D445	57.0	47.4	44.8	46.0
Visc @ 100°C	cSt	ASTM D445	9.4	7.3	7.4	7.3
Viscosity Index (VI)	Scale	ASTM D2270	147	115	129	120
SAMPLE IMAGES meth		method	limit/base	current	history1	history2

Color

Bottom

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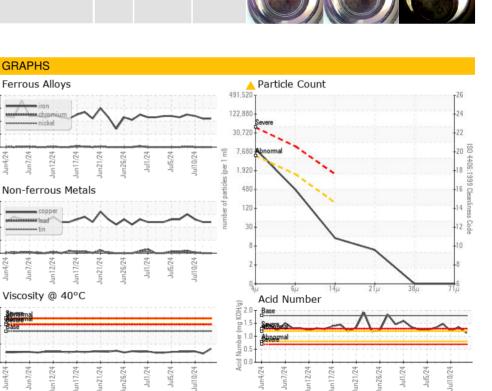
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F: (919)379-4050

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