

## **OIL ANALYSIS REPORT**

# WCLSNC QC HY NC 08012022

Component **Hydraulic System** 

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

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

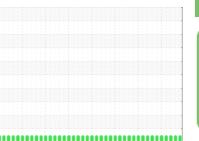
All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

#### Fluid Condition

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



Sample Rating Trend



NORMAL

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

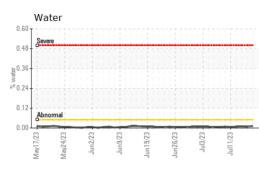
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0835959	WC0835956	WC0835955
Sample Date		Client Info		17 Jul 2023	14 Jul 2023	13 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		15	10	12
Iron	ppm	ASTM D5185m	>18	12	12	11
Chromium	ppm	ASTM D5185m	>2	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	<1	0	1
Lead	ppm	ASTM D5185m	>3	0	<1	<1
Copper	ppm	ASTM D5185m	>10	7	7	7
Tin	ppm	ASTM D5185m	>2	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	0	0	0
Barium	ppm	ASTM D5185m	0	2	0	0
Molybdenum	ppm		0	<1	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	145	<1	3	3
Calcium	ppm	ASTM D5185m	3570	91	83	88
Phosphorus	ppm	ASTM D5185m	1290	659	615	599
Zinc	ppm	ASTM D5185m	1640	864	778	821
Sulfur	ppm	ASTM D5185m		2005	1814	1916
CONTAMINANTS	1-1-	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>4	2	2	2
Sodium	ppm		>2	<1	<1	2
Potassium	ppm	ASTM D5185m	>20	2	2	2
Water ppm Water	% ppm	ASTM D6304 ASTM D6304		0.012 125.7	0.008	0.010
FLUID CLEANLIN		method	limit/base			
Particles >4µm	200	ASTM D7647	>5000	current 364	history1 810	history2 519
Particles >6µm		ASTM D7647 ASTM D7647		89	231	97
Particles >14µm		ASTM D7647 ASTM D7647	>1300	12	18	7
Particles >21µm		ASTM D7647 ASTM D7647		3	5	2
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647 ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>3 >19/17/14	0 16/14/11	17/15/11	16/14/10
FLUID DEGRADA						
		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	0.60	0.62	0.58 Submitted By: 2

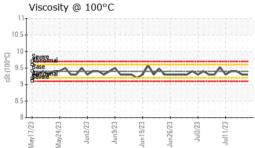
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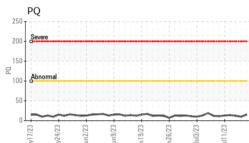
Submitted By: ?



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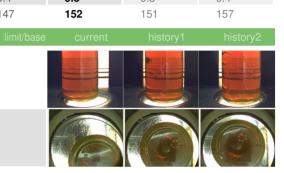


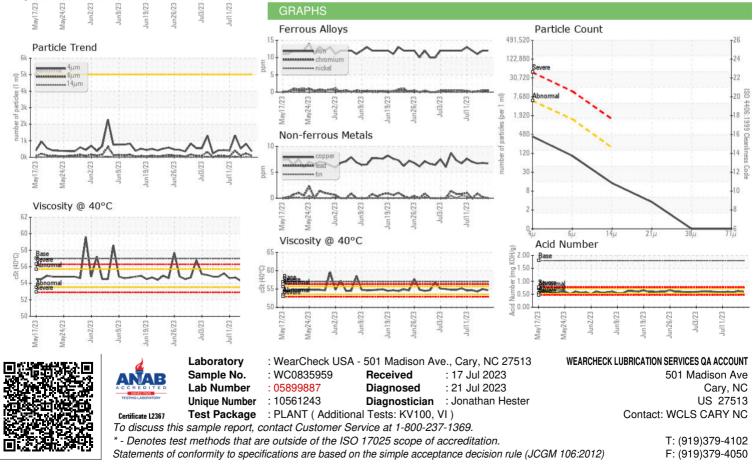


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	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	54.69	55.0	54.3
Visc @ 100°C	cSt	ASTM D445	9.4	9.3	9.3	9.4
Viscosity Index (VI)	Scale	ASTM D2270	147	152	151	157
SAMPLE IMAGES		method	limit/base	current	history1	history2
					0	

Color

Bottom





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