

## **OIL ANALYSIS REPORT**

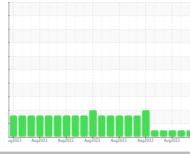
#### Sample Rating Trend

# WCLSNC QC230801HY

Component Hydraulic System Fluid

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

### DIAGNOSIS





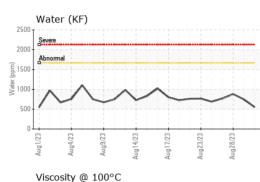
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SAMPLE INFORM	<b>/</b> ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0844507	WC0844506	WC0844505
Sample Date		Client Info		30 Aug 2023	29 Aug 2023	28 Aug 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status						
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>47	31	29	24
Iron	ppm	ASTM D5185m	>78	53	<b>5</b> 9	55
Chromium	ppm	ASTM D5185m	>2	<1	1	<1
Nickel	ppm	ASTM D5185m	>3	1	2	2
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum		ASTM D5185m	>5	4	▲ 3	3
Lead	ppm	ASTM D5185m	>5	9	▲ 3 ● 11	9
	ppm			-		9 79
Copper	ppm	ASTM D5185m	>84	<b>▲</b> 86	75	
Tin	ppm	ASTM D5185m	>4	2	▲ 3	2
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	118	112	107
Barium	ppm	ASTM D5185m	0	<mark>/</mark> 3	0	<u> </u>
Molybdenum	ppm	ASTM D5185m	0	<1	<1	<1
Manganese	ppm	ASTM D5185m		15	<b>1</b> 6	15
Magnesium	ppm	ASTM D5185m	145	21	930	20
Calcium	ppm	ASTM D5185m	3570	3737	93511	3563
Phosphorus	ppm	ASTM D5185m	1290	1196	🛑 1156	1148
Zinc	ppm	ASTM D5185m	1640	1444	1449	1385
Sulfur	ppm	ASTM D5185m		3792	93945	3478
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	7	9	7
Sodium	ppm	ASTM D5185m	>23	13	<b>1</b> 9	13
Potassium	ppm	ASTM D5185m	>20	2	2	3
Water	%	ASTM D6304	>0.1669	0.054	▲ 0.074	0.088
ppm Water	ppm	ASTM D6304	>1669	549.0	▲ 746.8	881.8
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000			
Particles >6µm		ASTM D7647				
Particles >14µm		ASTM D7647	>160			
Particles >21µm		ASTM D7647				
Particles >38µm		ASTM D7647	>10			
Particles >71µm		ASTM D7647				
Oil Cleanliness		ISO 4406 (c)	>19/17/14			
FLUID DEGRADA		method	limit/base		history	history
				current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	0.98	0.966	0.74 Submitted By: 2

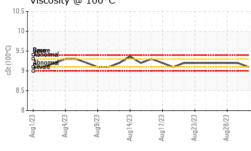
Report Id: WEACARQA [WUSCAR] 05938265 (Generated: 10/30/2023 01:01:20) Rev: 1

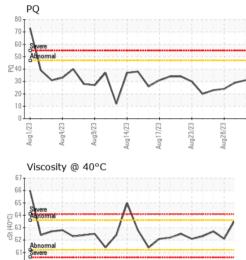
Submitted By: ?



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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	🔺 MODER	NONE	🔺 HEAVY
Debris	scalar	*Visual	NONE	NONE	🔺 HEAVY	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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.0	62.1	63.6	62.1
Visc @ 100°C	cSt	ASTM D445	9.4	9.1	9.2	9.2
Viscosity Index (VI)	Scale	ASTM D2270	147	<b>123</b>	<b>▲</b> 122	126
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						

Bottom



