

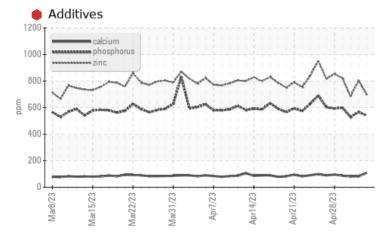
PROBLEM SUMMARY

Area WCLSNC Machine Id QC HY NC 08012022 Component

Hydraulic System

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

PROBLEMATIC TEST RESULTS							
Sample Status			SEVERE	NORMAL	NORMAL		
Magnesium	ppm	ASTM D5185m	6	1	<1		
Calcium	ppm	ASTM D5185m	🛑 109	82	82		

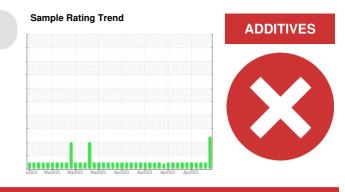
Customer Id: WEACARQA Sample No.: WC0817144 Lab Number: 05837744 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data: System Automation +1 905-569-8600 x230 Kevin.Marson@wearcheck.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com



There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

03 May 2023 Diag: Jonathan Hester



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



02 May 2023 Diag: Jonathan Hester



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN

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



NORMAL



01 May 2023 Diag: Jonathan Hester

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.







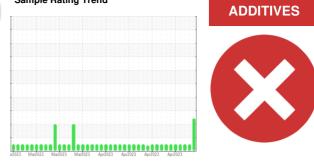
OIL ANALYSIS REPORT

WCLSNC QC HY NC 08012022

Hydraulic System

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

DIAGNOSIS



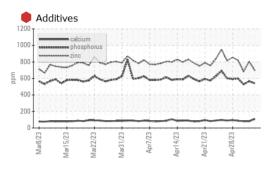
Sample Rating Trend

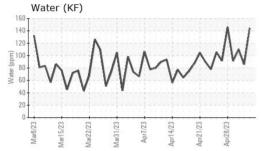
AL)		w2023 Mar202	3 Mar2023 Mar2023	Apr2023 Apr2023 Apr2023	Apr2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0817144	WC0817143	WC0817142
Sample Date		Client Info		04 May 2023	03 May 2023	02 May 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		15	10	18
Iron	ppm	ASTM D5185m		10	9	12
Chromium	ppm	ASTM D5185m		0	0	<1
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		<1	0	<1
Lead	ppm	ASTM D5185m		0	0	0
Copper	ppm	ASTM D5185m		7	4	8
Tin	ppm	ASTM D5185m		0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	pp	method	limit/base	-	history1	history2
		ASTM D5185m	iiiiii/base	0	0	0
Boron	ppm			0	0	0
Barium	ppm	ASTM D5185m		-		
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		6	1	<1
Calcium	ppm	ASTM D5185m		• 109	82	82
Phosphorus	ppm	ASTM D5185m		540	567	528
Zinc	ppm	ASTM D5185m		699	805	683
Sulfur	ppm	ASTM D5185m		1358	1571	1584
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		2	0	1
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m		3	1	0
Water	%	ASTM D6304		0.014	0.008	0.011
opm Water	ppm	ASTM D6304		144.2	85.9	110.3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		826	415	523
Particles >6µm		ASTM D7647		135	53	85
Particles >14µm		ASTM D7647		16	5	10
Particles >21µm		ASTM D7647		6	2	3
Particles >38µm		ASTM D7647		1	1	1
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)		17/14/11	16/13/10	16/14/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.60	0.62	0.60
7·00·22) Bov: 1	- 0					Submitted By:

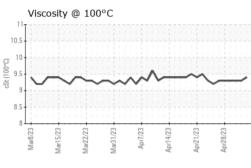
Report Id: WEACARQA [WUSCAR] 05837744 (Generated: 10/03/2023 17:00:22) Rev: 1



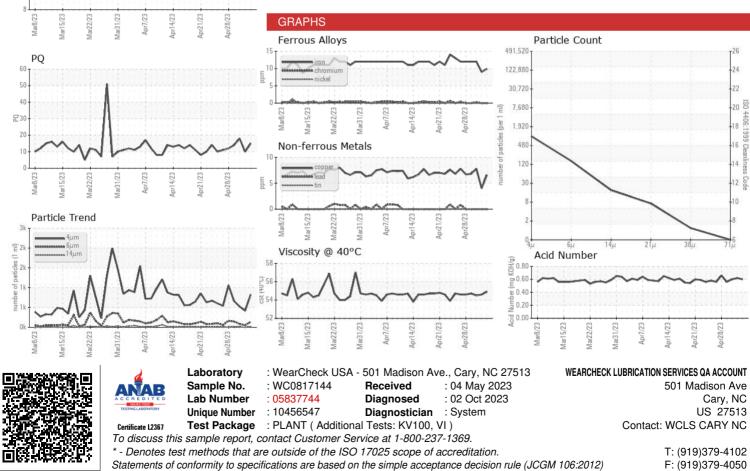
OIL ANALYSIS REPORT







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		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		54.9	54.6	54.5
Visc @ 100°C	cSt	ASTM D445		9.4	9.3	9.3
Viscosity Index (VI)	Scale	ASTM D2270		154	153	153
SAMPLE IMAGES	5	method	limit/base	current	history1	history2
Color						



Bottom