

Area WCLSNC Machine Id

QC230801HY

### **OIL ANALYSIS REPORT**

SAMPLE INFORMATION method

#### Sample Rating Trend

## ISO

history2

history1

# 2024 Maž024 Maž024 Maž024 Maž024 Rez004 April024 April024 April024

current

limit/base

Component			
Hydraulic	Svstem	1	
Fluid	-,		

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

#### DIAGNOSIS

#### A Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is a high amount of particulates present in the oil.

#### **Fluid Condition**

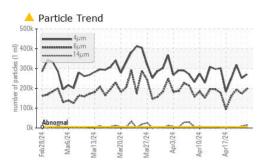
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

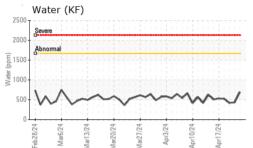
Report Id: WEACARQA [WUSCAR] 06157694 (Generated: 04/29/2024

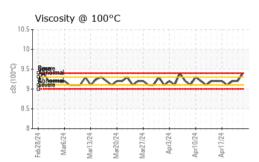
SAWFLE INFURI		method	iinii/base	current	nistory i	nistory2
Sample Number		Client Info		WC0929407	WC0929406	WC0929403
Sample Date		Client Info		23 Apr 2024	22 Apr 2024	19 Apr 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>47	35	28	102
Iron	ppm	ASTM D5185m		65	54	62
Chromium	ppm	ASTM D5185m	>2	1	<1	<1
Nickel	ppm	ASTM D5185m		2	0	<1
Titanium	ppm	ASTM D5185m	>2	- <1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum		ASTM D5185m	>5	3	2	2
Lead	ppm ppm	ASTM D5185m		9	10	9
Copper		ASTM D5185m	>84	9 76	64	78
Tin	ppm	ASTM D5185m		3	2	3
Vanadium	ppm	ASTM D5185m	>4	ہ <1	<1	0
	ppm			<1 <1	<1	0
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	101	90	117
Barium	ppm	ASTM D5185m	0	<1	<1	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		19	17	18
Magnesium	ppm	ASTM D5185m	145	22	23	23
Calcium	ppm	ASTM D5185m	3570	3436	3324	3459
Phosphorus	ppm	ASTM D5185m	1290	1119	1017	1212
Zinc	ppm	ASTM D5185m	1640	1421	1320	1421
Sulfur	ppm	ASTM D5185m		3536	3733	3946
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	9	8	9
Sodium	ppm	ASTM D5185m	>23	17	14	21
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water	%	ASTM D6304	>0.1669	0.069	0.043	0.041
opm Water	ppm	ASTM D6304	>1669	695	435	418
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>A</b> 271043	<b>a</b> 251339	▲ 318709
Particles >6µm		ASTM D7647	>1300	<u> </u>	<b>1</b> 72735	<b>1</b> 94189
Particles >14µm		ASTM D7647	>160	🔺 14471	<b>A</b> 7999	<u> </u>
Particles >21µm		ASTM D7647	>40	<u> </u>	<b>4</b> 26	<b>A</b> 87
Particles >38µm		ASTM D7647	>10	<u> </u>	4	1
Particles >71µm		ASTM D7647	>3	1	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>	▲ 25/25/20	▲ 25/25/19
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN) :45:51) Rev: 1	mg KOH/g	ASTM D8045	1.8	1.05	0.95	0.81 Submitted By:

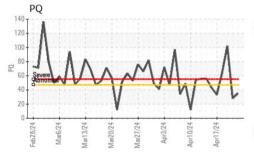


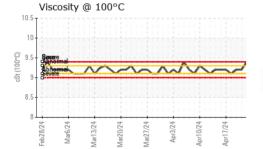
## **OIL ANALYSIS REPORT**





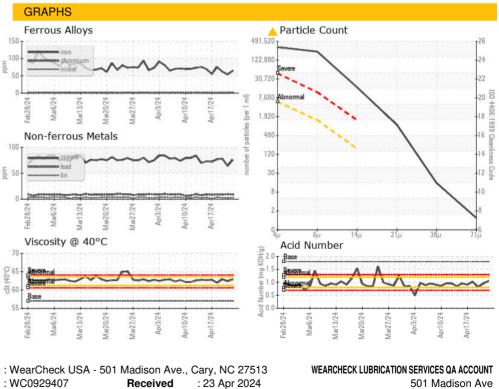






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	MODER	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	MODER	MODER	MODER
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
Visc @ 40°C	cSt	ASTM D445	57.0	62.9	62.38	62.9
Visc @ 100°C	cSt	ASTM D445	9.4	9.4	9.2	9.2
Viscosity Index (VI)	Scale	ASTM D2270	147	129	125	124
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
						ALL





: 29 Apr 2024

501 Madison Ave Cary, NC : 29 Apr 2024 - Jonathan Hester US 27513 Contact: WCLS CARY NC

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

Color

Bottom

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

Tested

Diagnosed

Report Id: WEACARQA [WUSCAR] 06157694 (Generated: 04/29/2024 12:45:51) Rev: 1

Certificate 12367

Laboratory

Sample No.

Lab Number : 06157694

Unique Number : 10993117

F: (919)379-4050 Submitted By: ?

T: (919)379-4102