

# **PROBLEM SUMMARY**



### COMPONENT CONDITION SUMMARY



Area [**W46858**]

**Hydraulic System** 

JOHN DEERE HYDRAU (--- GAL)

Component

### RECOMMENDATION

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

PROBLEMATIC TEST RESULTS							
Sample Status			ATTENTION	NORMAL	NORMAL		
Particles >6µm	ASTM D7647	>5000	<u> </u>	147			
Particles >14µm	ASTM D7647	>640	<b>A</b> 709	14			
Oil Cleanliness	ISO 4406 (c)	>23/19/16	<u> </u>	17/14/11			

Customer Id: JAMASH Sample No.: JR0179215 Lab Number: 05967701 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Filter			?	We recommend you service the filters on this component.		

### HISTORICAL DIAGNOSIS

#### NORMAL



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



view report

#### 15 Feb 2022 Diag: Jonathan Hester

14 Feb 2023 Diag: Don Baldridge



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Resample at the next service interval to monitor. We were unable to perform a particle count due to insufficient sample. All component wear rates are normal. Insufficient sample was received to conduct all the routine laboratory tests. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

NORMAL

#### 13 Apr 2021 Diag: Don Baldridge

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







## **OIL ANALYSIS REPORT**

Sample Rating Trend



DIAGNOSIS

Area [W46858] JOHN DEERE 410E 1DW410EBAMF709228 Component Hydraulic System



JOHN DEERE HYDRAU (--- GAL)

DIAGNOSIS	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		JR0179215	JR0147941	JR0084829
We recommend you service the filters on this	Sample Date		Client Info		26 Sep 2023	14 Feb 2023	15 Feb 2022
component. Resample at the next service interval to	Machine Age	hrs	Client Info		4970	4465	2380
monitor.	Oil Age	hrs	Client Info		0	0	2380
Wear	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
All component wear rates are normal.	Sample Status				ATTENTION	NORMAL	NORMAL
Contamination	WEAR METALS		method	limit/base	current	historv1	historv2
l here is a light amount of silt (particulates < 14 nicrons in size) present in the oil.	PQ		ASTM D8184	>50	9	13	13
	Iron	maa	ASTM D5185m	>71	6	4	4
The AN level is acceptable for this fluid. The	Chromium	ppm	ASTM D5185m	>11	2	1	1
condition of the oil is suitable for further service.	Nickel	ppm	ASTM D5185m	>6	0	0	0
	Titanium	mag	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	nom	ASTM D5185m	>11	0	<1	0
	Lead	nnm	ASTM D5185m	>13	د د1	0	<1
	Copper	nnm	ASTM D5185m	>21	2	<1	2
	Tin	nnm	ASTM D5185m	~5	0	0	0
	Antimony	ppm	ASTM D5185m	20		0	0
	Vanadium	ppm	AGTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
		T- T-	method	limit/base	current	history1	history
	Derez			in the base	0	0	1
	Boron	ppm	ASTM D5185m		0	0	<1
	Barium	ppm	ASTM D5185M		0	0	0
	Molybdenum	ppm	ASTM D5185m		<1	<	<1
	Manganese	ppm	ASTM D5185m		0	0	<1
	Magnesium	ppm	ASTM D5185m		3	3	2
	Calcium	ppm	ASTM D5185m	87	84	89	89
	Phosphorus	ppm	ASTM D5185m	727	580	614	643
	Zinc	ppm	ASTM D5185m	900	801	829	755
	Sulfur	ppm	ASTM D5185m	1500	1717	1876	1376
	CONTAMINANTS		method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>24	2	1	1
	Sodium	ppm	ASTM D5185m	>21	1	<1	1
	Potassium	ppm	ASTM D5185m	>20	4	1	4
	FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
	Particles >4µm		ASTM D7647	>80000	18981	685	
	Particles >6µm		ASTM D7647	>5000	<u> </u>	147	
	Particles >14µm		ASTM D7647	>640	<b>A</b> 709	14	
	Particles >21µm		ASTM D7647	>160	113	2	
	Particles >38µm		ASTM D7647	>40	1	0	
	Particles >71um		ASTM D7647	>10	0	0	
	Oil Cleanliness		ISO 4406 (c)	>23/19/16	<b>A</b> 21/20/17	17/14/11	
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Submitted By: TECHNICIAN ACCOUNT



# **OIL ANALYSIS REPORT**



VISUAL		method	limit/base	current	history1	history2
/hite Metal	scalar	*Visual	NONE	NONE	NONE	NONE
ellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
recipitate	scalar	*Visual	NONE	NONE	NONE	NONE
ilt	scalar	*Visual	NONE	NONE	NONE	NONE
ebris	scalar	*Visual	NONE	LIGHT	NONE	NONE
and/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
ppearance	scalar	*Visual	NORML	NORML	NORML	NORML
dor	scalar	*Visual	NORML	NORML	NORML	NORML
mulsified Water	scalar	*Visual	>0.075	NEG	NEG	NEG
ree Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
isc @ 40°C	cSt	ASTM D445	65	58.5	58.7	
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
olor						



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

Submitted By: TECHNICIAN ACCOUNT

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