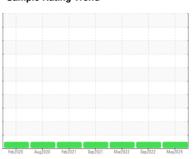


# **OIL ANALYSIS REPORT**

### Sample Rating Trend









# JOHN DEERE 310E 1DW310EXTKF697898 Component Hydraulic System

Fluid JOHN DEERE HYDRAU (--- GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Moar

All component wear rates are normal.

#### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

#### **Fluid Condition**

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

0 ( GAL)		1602020	Augusto 1602021	OURISE OURISE	May2021	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0211657	JR0135956	JR0110280
Sample Date		Client Info		28 May 2024	01 Sep 2022	04 Mar 2022
Machine Age	hrs	Client Info		4359	3515	2957
Oil Age	hrs	Client Info		4359	3515	2957
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	DN	method	limit/base	current	history1	history2
Water		WC Method	>0.075	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	14	7	19
Iron	ppm	ASTM D5185m	>71	8	4	4
Chromium	ppm	ASTM D5185m	>11	2	1	1
Nickel	ppm	ASTM D5185m	>6	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		1	<1	0
Aluminum	ppm	ASTM D5185m	>11	1	<1	1
Lead	ppm	ASTM D5185m	>13	<1	<1	0
Copper	ppm	ASTM D5185m	>21	3	1	<1
Tin	ppm	ASTM D5185m	>5	<1	1	1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		1	0	0
Calcium	ppm	ASTM D5185m	87	73	68	83
Phosphorus	ppm	ASTM D5185m	727	586	507	628
Zinc	ppm	ASTM D5185m	900	745	688	742
Sulfur	ppm	ASTM D5185m	1500	1660	1317	1304
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>24	3	1	2
Sodium	ppm	ASTM D5185m	>21	0	0	0
Potassium	ppm	ASTM D5185m	>20	<1	2	0
FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>80000	10882	5729	6714
Particles >6µm		ASTM D7647	>5000	157	24	46
Particles >14µm		ASTM D7647	>640	16	5	7
Particles >21µm		ASTM D7647	>160	4	1	2
Particles >38µm		ASTM D7647	>40	0	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	21/14/11	20/12/10	20/13/10



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory

Sample No.

: JR0211657 Lab Number : 06194600 Unique Number : 11056723

To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** 

Diagnosed Test Package : CONST ( Additional Tests: PQ )

: 30 May 2024

: 29 May 2024

: 30 May 2024 - Wes Davis

Contact: DAVID ZIEG dzieg@jamesriverequipment.com

T: (804)798-6001 F: (804)798-0292

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

Submitted By: ?

JRE - ASHLAND

ASHLAND, VA

US 23005

11047 LEADBETTER RD