

# **OIL ANALYSIS REPORT**



current

history1

history2



Machine Id JOHN DEERE 310E 1DW310EXTKF697898 Component Center Differential Fluid JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

SAMPLE INFORMATION

method

limit/base

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### Recommendation

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

## 🔺 Wear

Bearing and/or bushing wear is indicated.

### Contamination

There is a light concentration of water present in the oil.

### Fluid Condition

The condition of the oil is acceptable for the time in service.

Sample Number		Client Info		JR0211656	JR0135957	JR0110273
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	1468	910
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		193	166	200
Iron	ppm	ASTM D5185m	>500	606	▲ 529	<b>▲</b> 706
Chromium	ppm	ASTM D5185m	>10	3	2	3
Nickel	ppm	ASTM D5185m	>10	4	<1	1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	3	5
Lead	ppm	ASTM D5185m	>25	18	19	15
Copper	ppm	ASTM D5185m	>100	<u> </u>	<u> </u>	<u> </u>
Tin	ppm	ASTM D5185m	>10	7	6	6
Antimony	ppm	ASTM D5185m	>5			
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	49	59	62
Barium	ppm	ASTM D5185m	0	3	0	0
Molybdenum	ppm	ASTM D5185m	0	3	3	6
Manganese	ppm	ASTM D5185m		11	10	14
Magnesium	ppm	ASTM D5185m	145	67	55	64
Calcium	ppm	ASTM D5185m	3570	3360	3405	3826
Phosphorus	ppm	ASTM D5185m	1290	1183	1083	1187
Zinc	ppm	ASTM D5185m	1640	1350	1337	1486
Sulfur	ppm	ASTM D5185m		4799	3435	3272
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	17	14	18
Sodium	ppm	ASTM D5185m		2	3	3
Potassium	ppm	ASTM D5185m	>20	2	2	2
Water	%	ASTM D6304	>.2	<u> </u>		
ppm Water	ppm	ASTM D6304	>2000	<b>A</b> 2300		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	MODER	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	>.2	0.2%	NEG	NEG Submitted Bv· ?
Free Water	scalar	*Visual		NEG	NEG	Page 1 of 2



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**JRE - ASHLAND** : 29 May 2024 11047 LEADBETTER RD : 31 May 2024 ASHLAND, VA : 31 May 2024 - Don Baldridge US 23005 Contact: DAVID ZIEG To discuss this sample report, contact Customer Service at 1-800-237-1369. dzieg@jamesriverequipment.com T: (804)798-6001 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (804)798-0292

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Certificate 12367

Unique Number : 11056836

Test Package : CONST ( Additional Tests: KF, PQ )

Diagnosed

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