

OIL ANALYSIS REPORT









JOHN DEERE 310E 1DW310EXJNF713817 Component Hydraulic System

Fluid
JOHN DEERE HYDRAU (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

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.

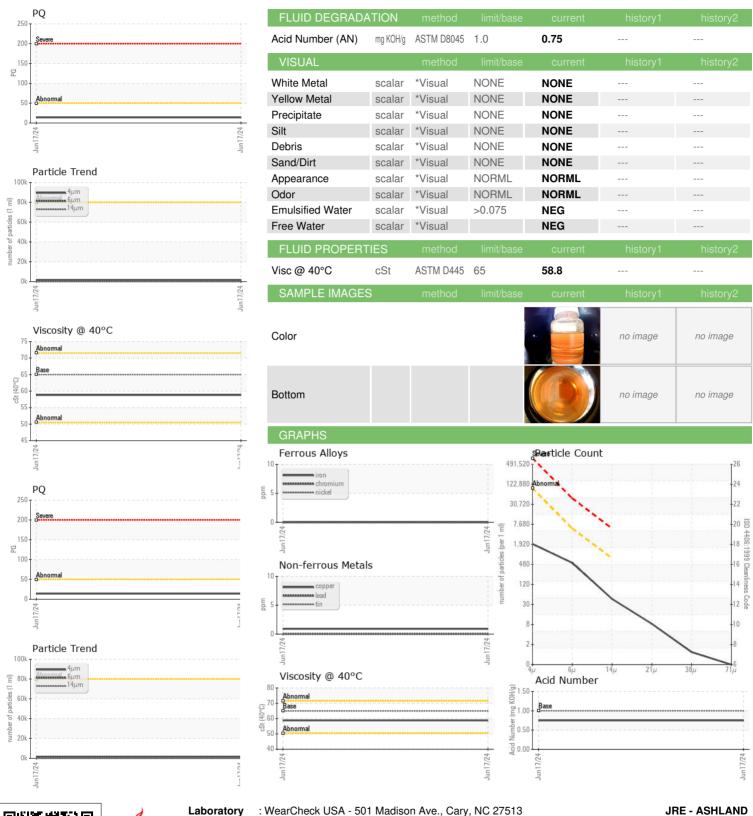
Fluid Condition

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

J (GAL)			Jun 2024			
	4471011					
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0211862		
Sample Date		Client Info		17 Jun 2024		
Machine Age	hrs	Client Info		440		
Oil Age	hrs	Client Info		440		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Nater		WC Method	>0.075	NEG		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	14		
ron	ppm	ASTM D5185m	>71	0		
Chromium	ppm	ASTM D5185m	>11	0		
Nickel	ppm	ASTM D5185m	>6	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>11	0		
_ead	ppm	ASTM D5185m	>13	0		
Copper	ppm	ASTM D5185m	>21	<1		
- in	ppm	ASTM D5185m	>5	0		
/anadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		<1		
Calcium	ppm	ASTM D5185m	87	125		
Phosphorus	ppm	ASTM D5185m	727	654		
Zinc	ppm	ASTM D5185m	900	866		
Sulfur	ppm	ASTM D5185m	1500	1964		
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>24	<1		
Sodium	ppm	ASTM D5185m	>21	3		
Potassium	ppm	ASTM D5185m	>20	3		
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>80000	1725		
Particles >6µm		ASTM D7647	>5000	468		
Particles >14μm		ASTM D7647	>640	39		
Particles >21µm		ASTM D7647	>160	7		
Particles >38µm		ASTM D7647	>40	1		
Particles >71μm		ASTM D7647	>10	0		
Oil Cleanliness		ISO 4406 (c)	>23/19/16	18/16/12		



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Laboratory Sample No.

: JR0211862 Lab Number : 06219592

Unique Number : 11097789 Test Package : CONST (Additional Tests: PQ)

Received **Tested**

: 26 Jun 2024 Diagnosed : 26 Jun 2024 - Wes Davis

: 25 Jun 2024

Certificate 12367 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

JRE - ASHLAND

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