

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id **JOHN DEERE 310E 1DW310EXJNF713817** Front Axle

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

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

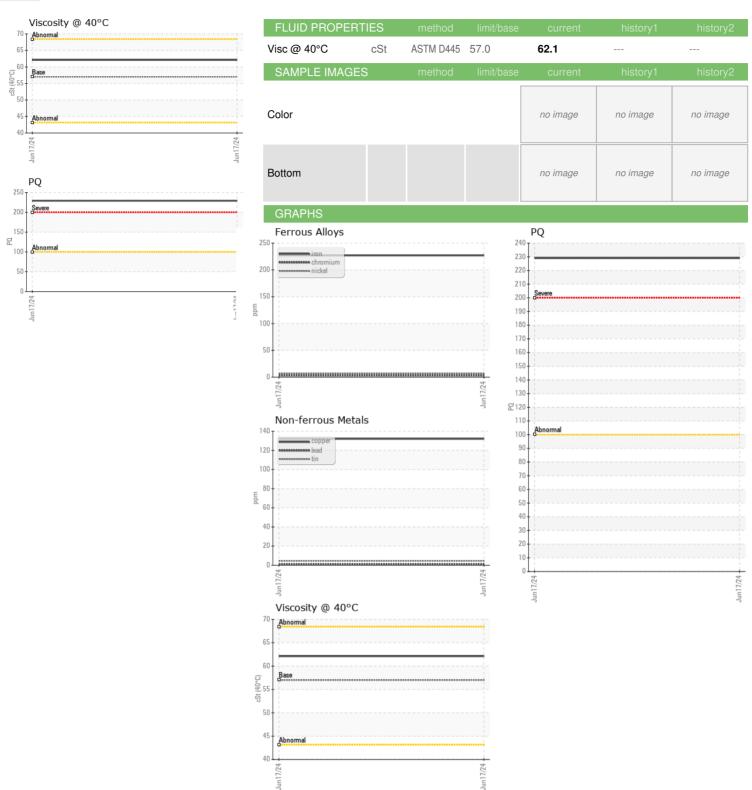
Fluid Condition

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

D HYD/TRANS (- GAL)			Jun 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0211629		
Sample Date		Client Info		17 Jun 2024		
Machine Age	hrs	Client Info		440		
Oil Age	hrs	Client Info		440		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		229		
Iron	ppm	ASTM D5185m	>1501	227		
Chromium	ppm	ASTM D5185m	>11	3		
Nickel	ppm	ASTM D5185m	>10	6		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		<1		
Aluminum	ppm		>21	4		
Lead	ppm	ASTM D5185m		1		
Copper	ppm	ASTM D5185m	>101	132		
Tin	ppm	ASTM D5185m		4		
Vanadium	ppm	ASTM D5185m	>10	<1		
Cadmium	ppm	ASTM D5185m		<1		
	ррш		11 12 0			
ADDITIVES		method	limit/base		history1	history2
Boron	ppm	ASTM D5185m	6	102		
Barium	ppm	ASTM D5185m		2		
Molybdenum	ppm	ASTM D5185m	0	<1		
Manganese	ppm	ASTM D5185m		41		
Magnesium	ppm	ASTM D5185m	145	22		
Calcium	ppm	ASTM D5185m	3570	3417		
Phosphorus	ppm	ASTM D5185m	1290	1005		
Zinc	ppm	ASTM D5185m	1640	1370		
Sulfur	ppm	ASTM D5185m		4164		
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>31	23		
Sodium	ppm	ASTM D5185m	>51	17		
Potassium	ppm	ASTM D5185m	>20	3		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	MODER		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.1	NEG		
Free Water	scalar	*Visual		NEG	cation: DAVID	ZIEGJAMASI
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OIL ANALYSIS REPORT





Laboratory Sample No.

Lab Number : 06219966 Unique Number : 11098163

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0211629 Received : 25 Jun 2024 **Tested**

Diagnosed

: 26 Jun 2024 : 26 Jun 2024 - Sean Felton 11047 LEADBETTER RD ASHLAND, VA US 23005

JRE - ASHLAND

Contact: DAVID ZIEG dzieg@jamesriverequipment.com

T: (804)798-6001

Test Package : CONST (Additional Tests: PQ) 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) F: (804)798-0292