

OIL ANALYSIS REPORT

Sample Rating Trend

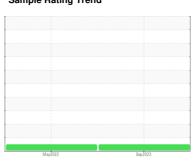
NORMAL



[W46585] **JOHN DEERE 310E 1DW310EXPMF712243**

Component **Front Differential**

JOHN DEERE HY-GAR





Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

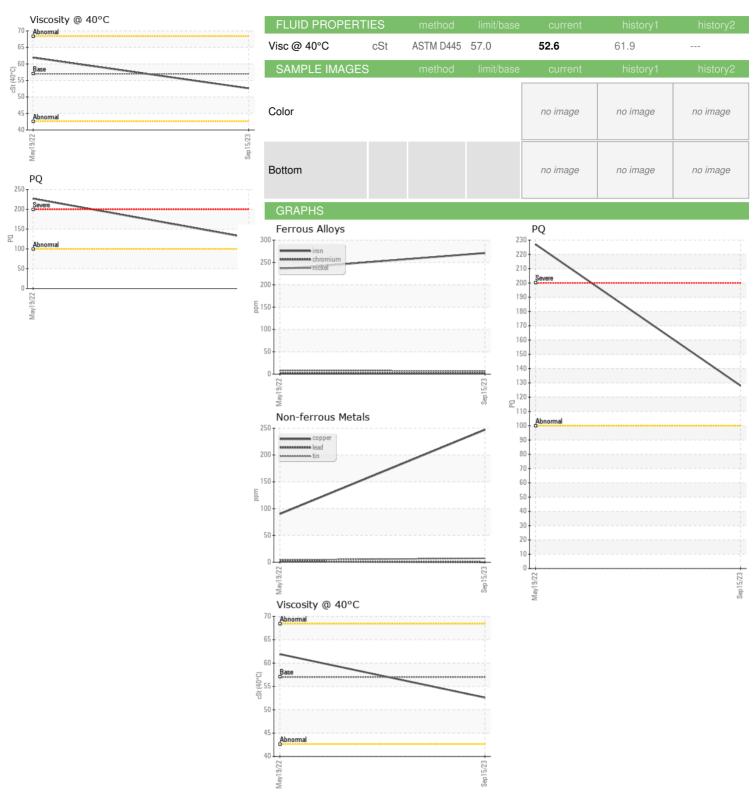
Fluid Condition

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

HYD/TRANS (GAL)					
`			May2022	Sep 2023		
SAMPLE INFORM	MOITA	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0179981	JR0124352	
Sample Date		Client Info		15 Sep 2023	19 May 2022	
Machine Age	hrs	Client Info		2016	501	
Dil Age	hrs	Client Info		0	501	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		128	227	
ron	ppm	ASTM D5185m	>500	271	235	
Chromium	ppm	ASTM D5185m	>10	2	3	
Nickel	ppm	ASTM D5185m	>10	7	8	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m		0	<1	
Aluminum	ppm	ASTM D5185m	>25	4	4	
Lead	ppm	ASTM D5185m	>25	0	2	
Copper	ppm	ASTM D5185m	>100	247	90	
Tin	ppm	ASTM D5185m	>10	7	4	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	18	105	
Barium	ppm	ASTM D5185m	0	3	0	
Molybdenum	ppm	ASTM D5185m	0	<1	<1	
Manganese	ppm	ASTM D5185m		13	40	
Magnesium	ppm	ASTM D5185m	145	84	25	
Calcium	ppm	ASTM D5185m	3570	3412	3581	
Phosphorus	ppm	ASTM D5185m	1290	1051	1157	
Zinc	ppm	ASTM D5185m	1640	1257	1413	
Sulfur	ppm	ASTM D5185m		3365	2819	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	14	16	
Sodium	ppm	ASTM D5185m		4	19	
Potassium	ppm	ASTM D5185m	>20	2	<1	
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	LIGHT	MODER	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	
Free Water	scalar	*Visual	- ·-	NEG	NEG	
TOO WATER	Juliai	Visual		ITLG	INLU	



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Laboratory Sample No. Lab Number

Unique Number

: JR0179981 : 05963713 : 10670264 Test Package : CONST (Additional Tests: PQ)

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

: 28 Sep 2023 : 29 Sep 2023 Diagnostician : Angela Borella

JRE - ASHLAND 11047 LEADBETTER RD ASHLAND, VA US 23005 Contact: DAVID ZIEG

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. 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)

Report Id: JAMASH [WUSCAR] 05963713 (Generated: 10/02/2023 10:50:38) Rev: 1 Contact/Location: DAVID ZIEG - JAMASH