

Machine Id JOHN Componen Front Fluid JOHN

JOHN DEERE 310E 1DW310EXTKF697898

Front Differential

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

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.

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Bearing and/or bushing wear is indicated.

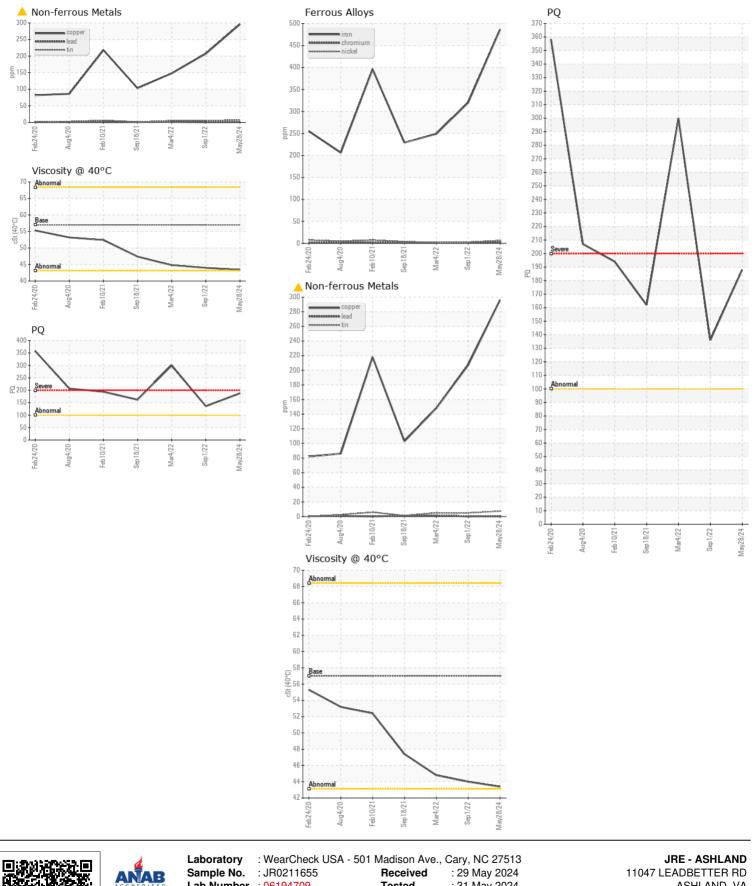
CONTAMINATION

There is no indication of any contamination in the oil.

FLU			

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

	ians (G	AL)					
	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0211655	JR0135950	JR0110274
	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
	Filter Age	hrs	Client Info		4359	558	910
	Oil Changed		Client Info		Changed	Not Changd	Not Changd
	Filter Changed		Client Info		Changed	Not Changd	Changed
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
	DO					400	000
	PQ		ASTM D8184	500	188	136	300
	Iron	ppm	ASTM D5185m	>500	486	320	249
	Chromium	ppm	ASTM D5185m	>10	2	2	1
	Nickel	ppm	ASTM D5185m	>10	6	3	2
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	0.7	0	0	<1
	Aluminum	ppm	ASTM D5185m	>25	1	2	2
	Lead	ppm	ASTM D5185m	>25	<1	<1	1
	Copper	ppm	ASTM D5185m	>100	▲ 296 -	▲ 207	<u> </u>
	Tin	ppm	ASTM D5185m	>10	7	5	5
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	MODER	MODER
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Silicon	ppm	ASTM D5185m	>75	15	12	12
	Potassium	ppm	ASTM D5185m	>20	2	2	0
	Water		WC Method	>.2	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	LIGHT	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	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	NEG	NEG	NEG
	Sodium	ppm	ASTM D5185m		3	3	0
	Boron	ppm	ASTM D5185m	6	61	59	56
	Barium	ppm	ASTM D5185m	0	2	0	0
	Molybdenum	ppm	ASTM D5185m	0	4	2	2
	Manganese	ppm	ASTM D5185m		12	9	8
	Magnesium	ppm	ASTM D5185m	145	68	55	60
	Calcium	ppm	ASTM D5185m	3570	3305	3417	3401
	Phosphorus	ppm	ASTM D5185m	1290	1103	1089	1049
	Zinc	ppm	ASTM D5185m	1640	1302	1334	1246
	Sulfur	ppm	ASTM D5185m		3384	3356	2726
	Visc @ 40°C	cSt	ASTM D445	57.0	43.4	44.0	44.8
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Sample No. : JR0211655 Received : 29 May 2024 11047 LEADBETTER RD Lab Number : 06194709 Tested ASHLAND, VA : 31 May 2024 Diagnosed Unique Number : 11056832 : 31 May 2024 - Don Baldridge US 23005 Test Package : CONST (Additional Tests: PQ) Contact: DAVID ZIEG Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dzieg@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (804)798-6001 F: (804)798-0292 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)