WEAR CONTAMINATION FLUID CONDITION

NORMAL SEVERE NORMAL

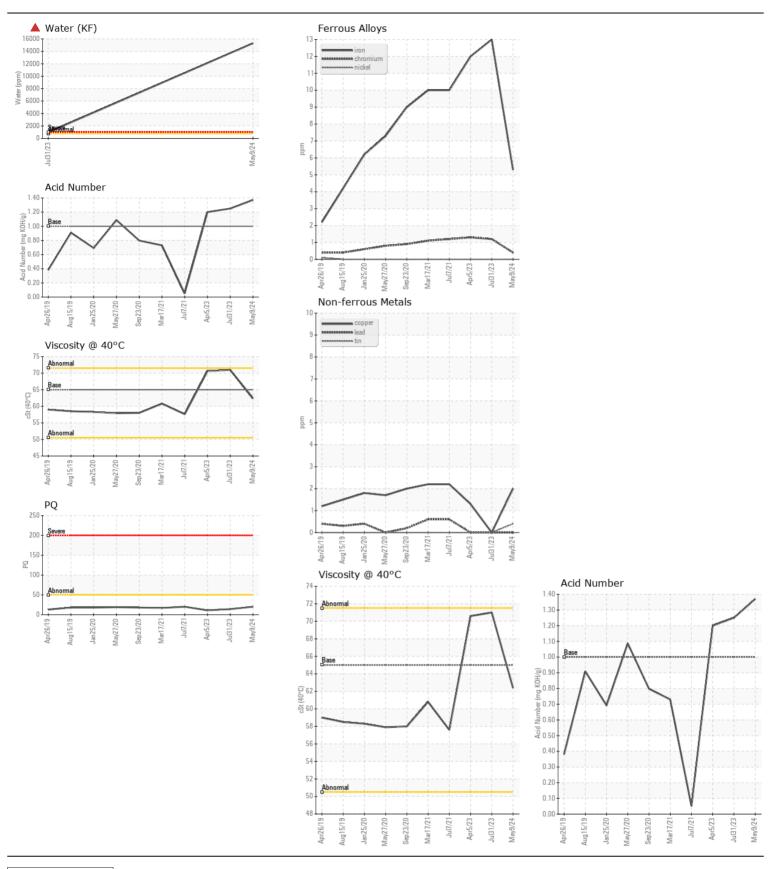


JOHN DEERE 410E 1DW410ETJJF689563

Hydraulic System

JOHN DEERE HYDRAU (--- QTS)

JOHN DEERE HYDRAU (Q15))						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TESSIMILITERIOR	Sample Number		Client Info		JR0217634		JR0137920
We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count.	Sample Date		Client Info		09 May 2024	31 Jul 2023	05 Apr 2023
	Machine Age	hrs	Client Info		5027	4560	4506
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Not Changd	Not Changd
	Filter Changed		Client Info		Changed	Not Changd	Not Changd
	Sample Status				SEVERE	ABNORMAL	NORMAL
WEAR	PQ		ASTM D8184	>50	20	14	11
All some or and are a made a second	Iron	ppm	ASTM D5185m	>71	5	13	12
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	1	1
	Nickel	ppm	ASTM D5185m	>6	0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m		2	3	1
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		2	0	1
	Tin	ppm	ASTM D5185m	>5	<1	0	0
	Vanadium	ppm	ASTM D5185m	NIONIE	<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>24	3	6	6
	Potassium	ppm	ASTM D5185m	>20	2	0	2
Appearance is milky. There is a high concentration of water present in the oil.	Water	%	ASTM D6304	>0.075	1.53	<u> </u>	
	ppm Water	ppm	ASTM D6304	>750	15300	4 960	
	Particles >4µm		ASTM D7647	>80000		16037	3332
	Particles >6μm		ASTM D7647	>5000		1303	32
	Particles >14µm		ASTM D7647	>640		74	4
	Particles >21µm		ASTM D7647			14	1
	Particles >38µm		ASTM D7647			0	0
	Particles >71µm		ASTM D7647			0	0
	Oil Cleanliness		ISO 4406 (c)	>23/19/16		21/18/13	19/12/9
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual *Visual	NONE	NONE	NONE NORML	NONE NORML
	Appearance	scalar	*Visual	NORML	MILKY NORML		NORML
	Odor Emulsified Water	scalar scalar	*Visual	NORML >0.075	NORIVIL ▲ 0.2%	NORML 0.2%	NEG
	Liliuisilieu vvalei	Suaiai	visuai	>0.075	U. 2 /0	U.Z /o	INLG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>21	<1	0	2
TI AND II C III C III C	Boron	ppm	ASTM D5185m		38	156	139
The AN level is acceptable for this fluid.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		25	124	121
	Manganese	ppm	ASTM D5185m		0	0	<1
	Magnesium	ppm	ASTM D5185m	0.	148	413	366
	Calcium	ppm	ASTM D5185m		212	778	768
	Phosphorus	ppm	ASTM D5185m		795	784	742
	Zinc	ppm	ASTM D5185m	900	947	999	955
	Sulfur	ppm	ASTM D5185m		2682	2913	2523
	Acid Number (AN)	mg KOH/g	ASTM D8045		1.37	1.25	1.20
	Visc @ 40°C	cSt	ASTM D445	00	62.4	71.0	70.6







Certificate L2367

Laboratory Sample No.

: JR0217634 Lab Number : 06175343

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

Tested Unique Number: 11021396 Diagnosed Test Package : CONST (Additional Tests: KF, PQ)

: 14 May 2024

: 10 May 2024

: 14 May 2024 - Don Baldridge

Received

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.

US 20111 Contact: DON VEST dvest@jamesriverequipment.com

JRE - MANASSAS PARK

9107 OWENS DRIVE

MANASSAS PARK, VA

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