

WEAR
CONTAMINATION
FLUID CONDITION

NORMAL
ATTENTION
ABNORMAL

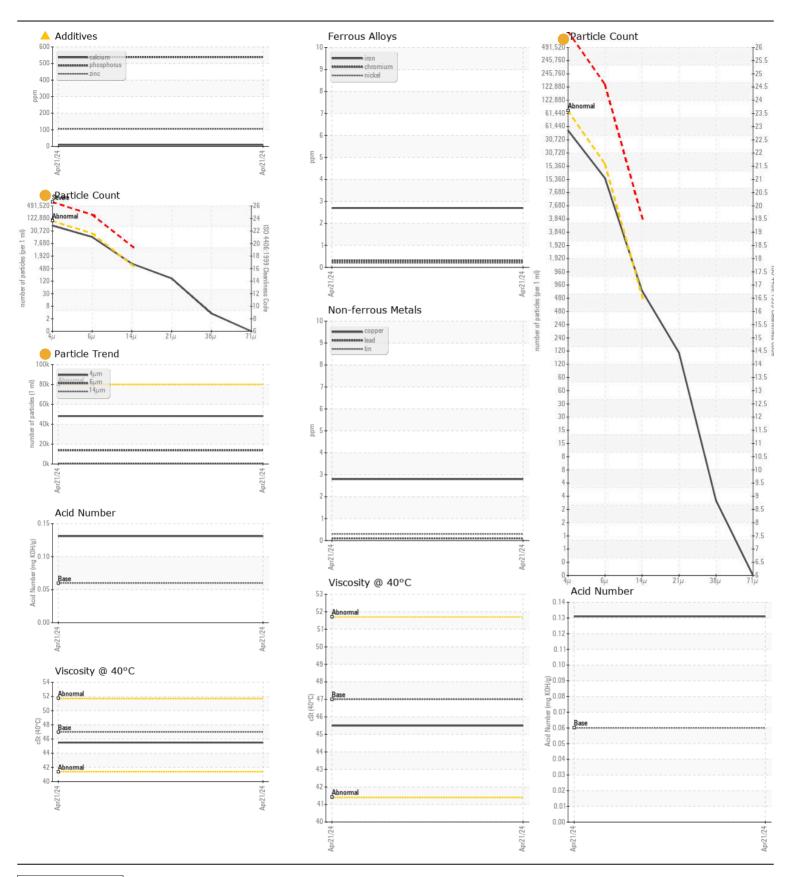


JOHN DEERE 245P 1FF245PAVNF000093

Hydraulic System

JOHN DEERE ZINC-FREE HYDRAULIC OIL 46 (--- GAL)

	Toot	11044	Mathad	Limit/Ala.	O	I liote ::: 4	Llieterro
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil.	Sample Number		Client Info		JR0209338		
	Sample Date	hre	Client Info		21 Apr 2024		
	Machine Age Oil Age	hrs hrs	Client Info		480 480		
	Filter Age	hrs	Client Info		0		
	Oil Changed	1115	Client Info		Not Changd		
	Filter Changed		Client Info		Not Change		
	Sample Status		Olletti IIIIO		ABNORMAL		
WEAR	PQ		ASTM D8184		16		
All component week rates are normal	Iron	ppm	ASTM D5185m	>32	3		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>9	<1		
	Nickel	ppm	ASTM D5185m	>5	<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		3		
	Tin	ppm	ASTM D5185m	>5	<1		
	Vanadium	ppm	ASTM D5185m	NONE	<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>11	3		
SONTAMINATION	Potassium	ppm	ASTM D5185m		2		
There is a moderate amount of particulates present in the oil.	Water	pp	WC Method		NEG		
	Particles >4µm		ASTM D7647		48161		
	Particles >6µm		ASTM D7647		13771		
	Particles >14µm		ASTM D7647	>640	726		
	Particles >21µm		ASTM D7647	>160	143		
	Particles >38µm		ASTM D7647	>40	3		
	Particles >71µm		ASTM D7647	>10	0		
	Oil Cleanliness		ISO 4406 (c)	>23/21/16	23/21/17		
	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	>0.075	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>21	0		
LOID CONDITION	Boron	ppm	ASTM D5185m	/LI	0		
Zinc level above manufacturer's recommendations. The AN level is acceptable for this fluid.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		<1		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		<1		
	Calcium	ppm	ASTM D5185m		9		
	Phosphorus	ppm	ASTM D5185m		538		
	Zinc	ppm	ASTM D5185m		<u> </u>		
	Sulfur	ppm	ASTM D5185m		214		
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.131		
	Visc @ 40°C	cSt	ASTM D445		45.5		





Certificate L2367

Laboratory Sample No. Lab Number

: JR0209338 : 06157559

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

Received **Tested** Unique Number: 10992982 Diagnosed Test Package : CONST (Additional Tests: PQ)

: 23 Apr 2024 : 24 Apr 2024 : 25 Apr 2024 - Jonathan Hester

JRE - GARNER 4161 AUBURN CHURCH RD GARNER, NC US 27529

Contact: RALEIGH SHOP sean.betts@jamesriverequipment.com;catherine.anastasio@wearcheck.com

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: (919)779-5432

T: (919)614-2260

Page 2 of 2

Report Id: RWMGAR [WUSCAR] 06157559 (Generated: 04/25/2024 10:22:47) Rev: 1