WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Area

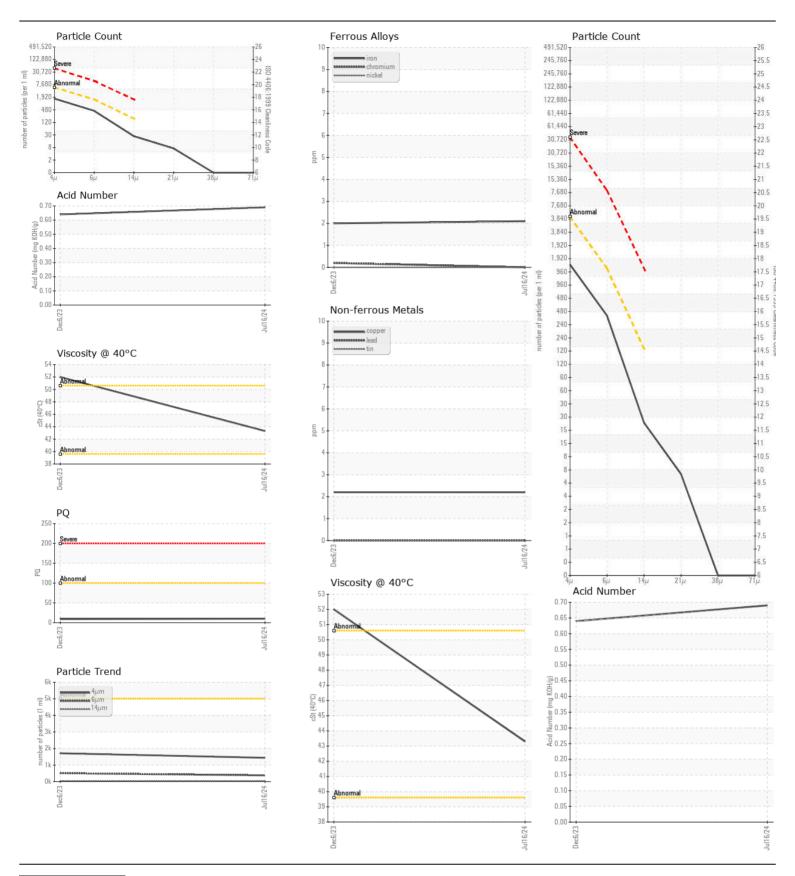
## [MORALES LOGGING]

## JOHN DEERE 437E 1T0437EDJPL442301

Hydraulic System

{not provided} (--- GAL)

{not provided} ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0222035	JR0164609	
	Sample Date		Client Info		16 Jul 2024	06 Dec 2023	
	Machine Age	hrs	Client Info		2007	1016	
	Oil Age	hrs	Client Info		0	1016	
	Filter Age	hrs	Client Info		0	1016	
	Oil Changed		Client Info		N/A	N/A	
	Filter Changed Sample Status		Client Info		N/A NORMAL	N/A NORMAL	
						INOTTIVIAL	
WEAR	PQ		ASTM D8184		10	9	
All component wear rates are normal.	Iron	ppm	ASTM D5185m		2	2	
	Chromium	ppm	ASTM D5185m		0	<1	
	Nickel	ppm	ASTM D5185m	>10	0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	40	0	0	
	Aluminum	ppm	ASTM D5185m		0	1	
	Lead	ppm	ASTM D5185m		0	0	
	Copper Tin	ppm	ASTM D5185m ASTM D5185m		2 0	2	
	Vanadium	ppm	ASTM D5185m	>10	0	0	
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
		Scalai	visuai	INOINE		INOINE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	3	2	
The consent and also of continuints are continuints and also one	Potassium	ppm	ASTM D5185m	>20	1	3	
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.	Water		WC Method		NEG	NEG	
	Particles >4μm		ASTM D7647		1440	1713	
	Particles >6μm		ASTM D7647		378	511	
	Particles >14μm		ASTM D7647		23	39	
	Particles >21µm		ASTM D7647		6	9	
	Particles >38µm		ASTM D7647		0	0	
	Particles >71μm		ASTM D7647		0	0	
	Oil Cleanliness		ISO 4406 (c)		18/16/12	18/16/12	
	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 Emulsified Water	scalar	*Visual	NORML >0.1	NORML NEG	NORML NEG	
	Linuisilleu vvalei	Sudidi	visual	20.1	NEG	IVEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		2	0	
The AN level is acceptable for this fluid. The condition of the cities	Boron	ppm	ASTM D5185m		0	0	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	3	
	Molybdenum	ppm	ASTM D5185m		0	0	
	Manganese	ppm	ASTM D5185m		0	0	
	Magnesium	ppm	ASTM D5185m		3	3	
	Calcium	ppm	ASTM D5185m		609	285	
	Phosphorus	ppm	ASTM D5185m		646	622	
	Zinc	ppm	ASTM D5185m		799	824	
	Sulfur	ppm	ASTM D5185m		2268	2018	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.69	0.64	
	Visc @ 40°C	cSt	ASTM D445		43.3	52.0	





Certificate L2367

Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0222035 : 06241588 Unique Number : 11130422

Received **Tested** 

: 19 Jul 2024 : 22 Jul 2024 : 22 Jul 2024 - Don Baldridge Diagnosed Test Package : CONST ( Additional Tests: PQ )

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)

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