WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Area

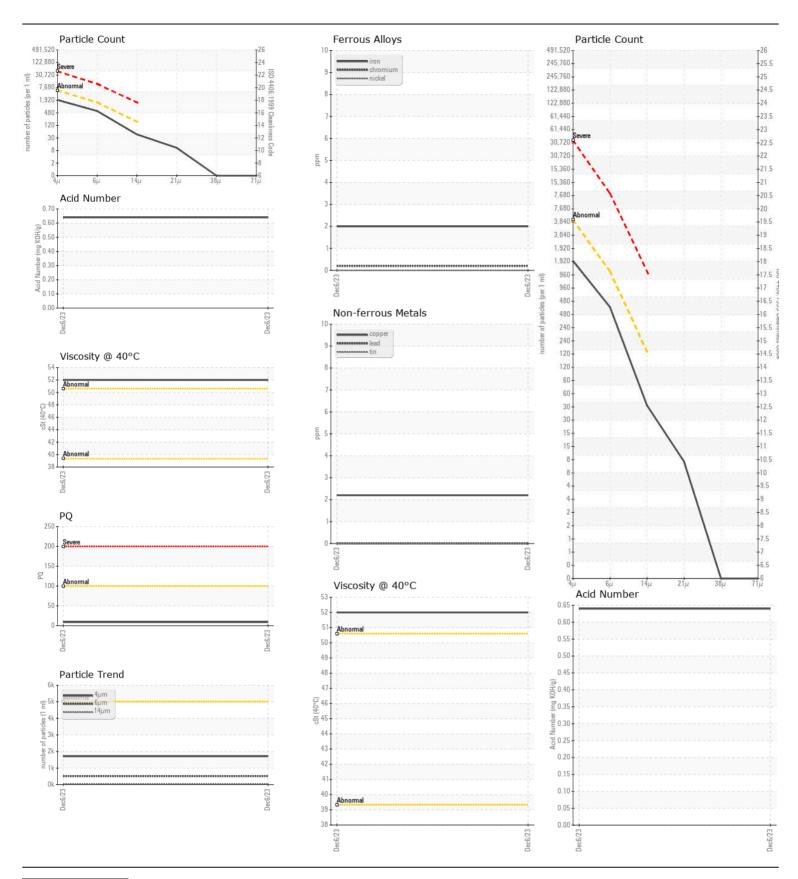
## [MORALES LOGGING]

## **JOHN DEERE 437E 1T0437EDJPL442301**

Hydraulic System

{not provided} (--- GAL)

{iiot provideu} ( GAL)					. ,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0164609		
	Sample Date		Client Info		06 Dec 2023		
	Machine Age	hrs	Client Info		1016		
	Oil Age	hrs	Client Info		1016		
	Filter Age	hrs	Client Info		1016		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAR	PQ		ASTM D8184		9		
	Iron	ppm	ASTM D5185m	>20	2		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m	>10	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>10	1		
	Lead	ppm	ASTM D5185m	>10	0		
	Copper	ppm	ASTM D5185m	>75	2		
	Tin	ppm	ASTM D5185m	>10	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	2		
CONTAMINATION	Potassium	ppm	ASTM D5185m		3		
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.	Water	ррпп	WC Method		NEG		
	Particles >4µm		ASTM D7647		1713		
	Particles >6µm		ASTM D7647		511		
	Particles >14µm		ASTM D7647		39		
	Particles >21µm		ASTM D7647		9		
	Particles >38µm		ASTM D7647		0		
	Particles >71μm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	18/16/12		
	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	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0		
	Boron	ppm	ASTM D5185m		0		
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		3		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		3		
	Calcium	ppm	ASTM D5185m		285		
	Phosphorus	ppm	ASTM D5185m		622		
	Zinc	ppm	ASTM D5185m		824		
	Sulfur	ppm	ASTM D5185m		2018		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.64		
	Visc @ 40°C	cSt	ASTM D445		52.0		





Certificate L2367

Laboratory Sample No. Lab Number Unique Number: 10779106

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0164609 : 06029315

Received : 08 Dec 2023 **Tested** Diagnosed Test Package : CONST ( Additional Tests: PQ )

: 11 Dec 2023 : 11 Dec 2023 - Don Baldridge

JRE - GARNER 4161 AUBURN CHURCH RD GARNER, NC

US 27529

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

T: (919)614-2260

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