WEAR CONTAMINATION FLUID CONDITION

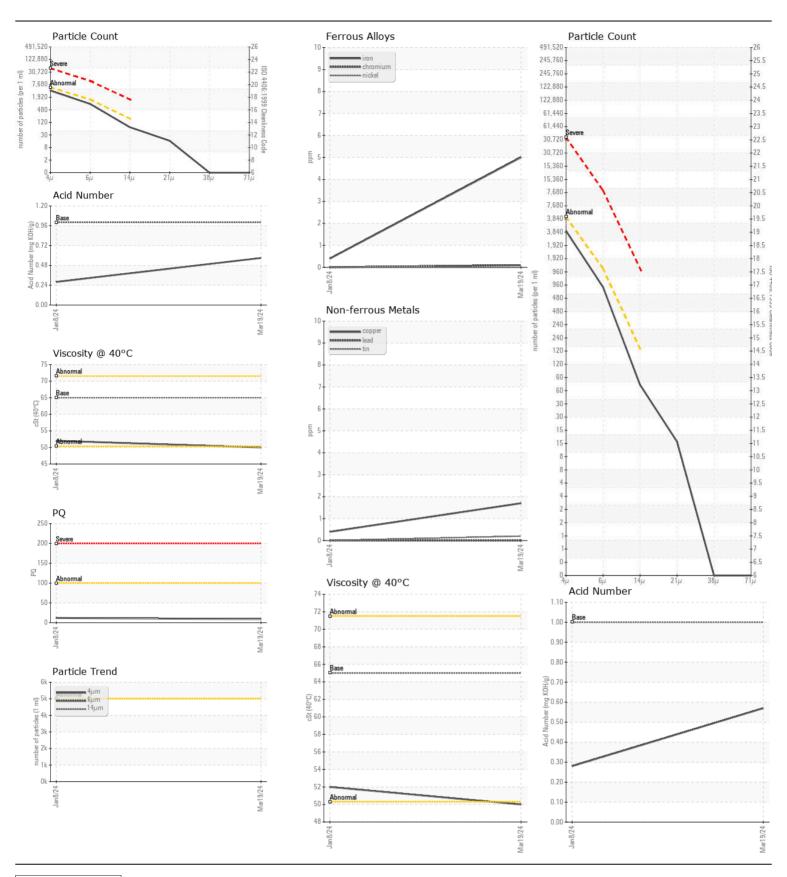
NORMAL NORMAL NORMAL

[FALLING OAK]

JOHN DEERE 437E 1T0437EDJPL442721

Component Hydraulic System

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0209538	JR0162268	
Resample at the next service interval to monitor.	Sample Date		Client Info		19 Mar 2024	08 Jan 2024	
	Machine Age	hrs	Client Info		1598	1164	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	Changed	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	ABNORMAL	
WEAR	PQ		ASTM D8184		9	12	
VLAN	Iron	ppm	ASTM D5185m	>20	5	<1	
All component wear rates are normal.	Chromium		ASTM D5185m		<1	0	
	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m	>10	0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>10	0	0	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		2	<1	
	Tin	ppm	ASTM D5185m		<1	0	
	Vanadium	ppm	ASTM D5185m	210	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONT A MINIA TION	Ciliana		ACTM DE10E	00	• • • • • • • • • • • • • • • • • • • •	4	
CONTAMINATION	Silicon	ppm	ASTM D5185m	-	2	1	
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		<1 NEO	NEC	
	Water		WC Method		NEG	NEG	
	Particles >4µm		ASTM D7647		3478		
	Particles >6µm		ASTM D7647		800		
	Particles >14µm		ASTM D7647		62		
	Particles >21µm		ASTM D7647		14		
	Particles >38µm		ASTM D7647		0		
	Particles >71µm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)		19/17/13		
	Silt Debris	scalar	*Visual	NONE	NONE	NONE	
		scalar	*Visual	NONE	NONE	▲ MODER	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
<u> </u>	Emulsified Water	Scalar	visuai	>0.1	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		2	<1	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		0	0	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		3	0	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		7	1	
	Calcium	ppm	ASTM D5185m		80	45	
	Phosphorus	ppm	ASTM D5185m		330	356	
	Zinc	ppm	ASTM D5185m	900	413	450	
	Sulfur	ppm	ASTM D5185m	1500	1566	1210	
	Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.57	0.28	
	Visc @ 40°C	cSt	ASTM D445	65	50.0	52.0	





Certificate L2367

Laboratory Sample No.

Lab Number : 06124802

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0209538

Unique Number: 10938953 Test Package : CONST (Additional Tests: PQ)

Received : 21 Mar 2024 **Tested** Diagnosed

: 22 Mar 2024 : 24 Mar 2024 - Don Baldridge

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 Contact/Location: RALEIGH SHOP - RWMGAR

T: (919)614-2260