WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

NORMAL

Machine Id

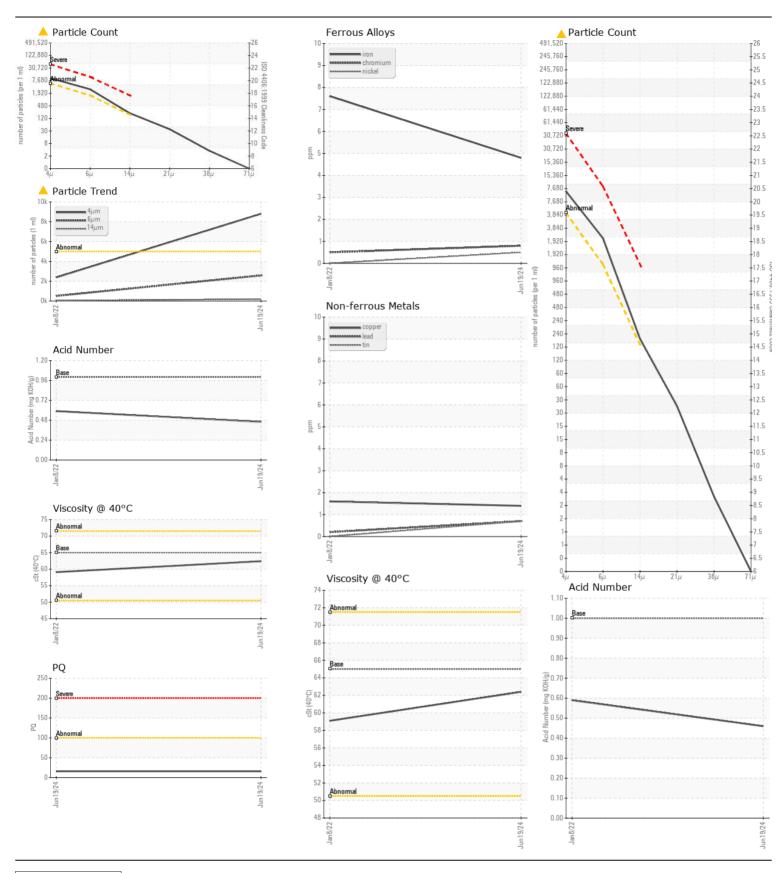
## JOHN DEERE 437E 1T0437EDJMF396804

Hydraulic System

JOHN DEERE HYDRAU (--- QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TECOMMENDATION	Sample Number	OOW	Client Info	LITTION	WE0007928	WE0000274	
We recommend you service the filters on this component. We recommend an early resample to monitor this condition.	Sample Date		Client Info		19 Jun 2024	08 Jan 2022	
	Machine Age	hrs	Client Info		6252	1826	
	Oil Age	hrs	Client Info		500	1826	
	Filter Age	hrs	Client Info		500	0	
	Oil Changed		Client Info		Not Changd	Changed	
	Filter Changed		Client Info		Not Changd	Changed	
	Sample Status				ABNORMAL	NORMAL	
WEAR	PQ		ASTM D8184		16		
WEAN	Iron	nnm	ASTM D5185m	> 20	5	8	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	
	Nickel	ppm	ASTM D5185m		<1	0	
	Titanium	ppm	ASTM D5185m	>10	<1	0	
	Silver	ppm	ASTM D5185m		<1	<1	
	Aluminum	ppm ppm	ASTM D5185m	>10	3	1	
	Lead	ppm	ASTM D5185m		ა <1	<1	
	Copper	ppm	ASTM D5185m		1	2	
	Tin	ppm	ASTM D5185m		- <1	0	
	Vanadium	ppm	ASTM D5185m	>10	<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
<u></u>			v 150aa1				
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	2	2	
	Potassium	ppm	ASTM D5185m	>20	3	<1	
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.	Water		WC Method	>0.1	NEG	NEG	
	Particles >4µm		ASTM D7647	>5000	<b>8803</b>	2382	
	Particles >6µm		ASTM D7647	>1300	<b>2579</b>	508	
	Particles >14μm		ASTM D7647	>160	<b>186</b>	45	
	Particles >21µm		ASTM D7647	>40	32	14	
	Particles >38μm		ASTM D7647	>10	3	1	
	Particles >71μm		ASTM D7647	>3	0	0	
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 20/19/15	18/16/13	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	LIGHT	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		<1	<1	
LOID CONDITION	Boron	ppm	ASTM D5185m		<1	10	
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.	Barium	ppm	ASTM D5185m		1	0	
	Molybdenum	ppm	ASTM D5185m		<1	2	
	Manganese	ppm	ASTM D5185m		<1	0	
	Magnesium	ppm	ASTM D5185m		<1	2	
	Calcium	ppm	ASTM D5185m	87	62	- 151	
	Phosphorus	ppm	ASTM D5185m		540	542	
	Zinc	ppm	ASTM D5185m		629	702	
	Sulfur	ppm	ASTM D5185m		1340	1309	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.46	0.59	
	Visc @ 40°C	cSt	ASTM D445		62.4	59.1	

Contact/Location: SCOTT GOOD - WARNOR





Certificate L2367

Laboratory Sample No. Unique Number : 11089637

: WE0007928 Lab Number : 06216773

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

: 24 Jun 2024 Diagnosed Test Package : CONST ( Additional Tests: PQ )

: 24 Jun 2024 - Wes Davis

: 21 Jun 2024

WARRIOR TRACTOR AND EQUIPMENT - NORTHPORT P.O. BOX 412 NORTHPORT, AL US 35476

Contact: SCOTT GOOD sgood@warriortractor.com T: (205)339-0300

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)