

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

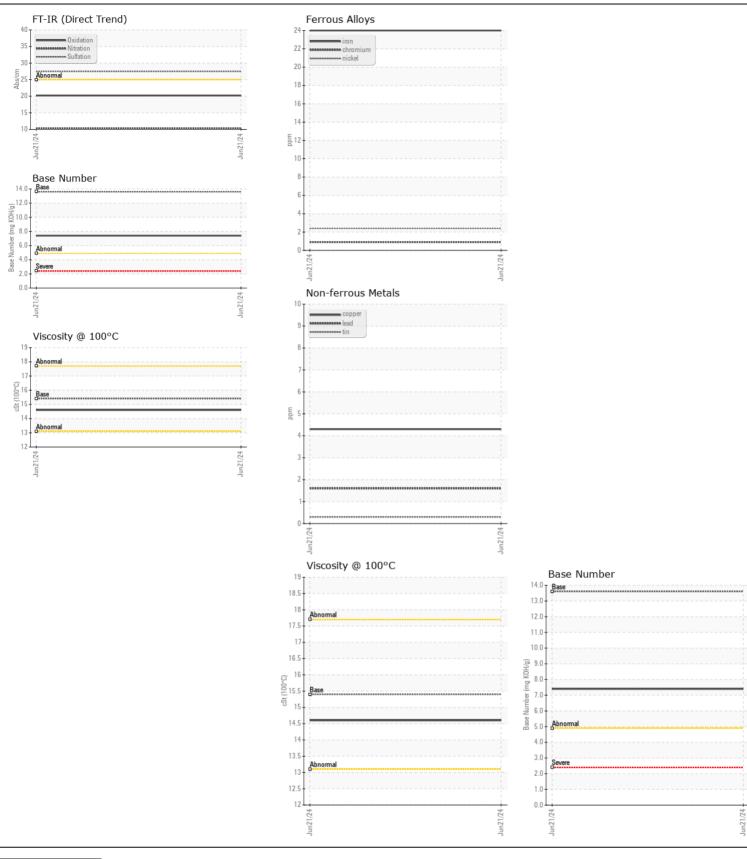
[127367]

JOHN DEERE 437E 1T0437EDTPL439975

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- QTS)

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (-							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WE0006965		
	Sample Date		Client Info		21 Jun 2024		
	Machine Age	hrs	Client Info		735		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>51	24		
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>11	<1		
	Nickel	ppm	ASTM D5185m	>5	2		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>31	4		
	Lead	ppm	ASTM D5185m	>26	2		
	Copper	ppm	ASTM D5185m	>26	4		
	Tin	ppm	ASTM D5185m	>4	<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	10		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3		
	Fuel		WC Method	>2.1	<1.0		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	1		
	Nitration	Abs/cm	*ASTM D7624	>20	10.2		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	27.5		
	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	>0.21	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	4		
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		44		
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		<1		
	Molybdenum	ppm	ASTM D5185m		238		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		852		
	Calcium	ppm	ASTM D5185m		1518		
	Phosphorus	ppm	ASTM D5185m		956		
	Zinc	ppm	ASTM D5185m		1146		
	Sulfur	ppm	ASTM D5185m	_	3265		
	Canai						
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.2		
			*ASTM D7414 ASTM D2896		20.2 7.4		





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06220821

Unique Number : 11099018

: WE0006965

Received **Tested** Diagnosed

: 26 Jun 2024 : 27 Jun 2024 : 27 Jun 2024 - Wes Davis

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

US 35476 Contact: CRAIG ANDOE

serve01@warriortractor.com T: (205)339-0300

Test Package : CONST (Additional Tests: TBN) Certificate L2367 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)