

## WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION ATTENTION

## WARRIOR USED (748L ii) [A35889] 748 LII (1DW748LBTNF713003)

## Drain Diesel Engine

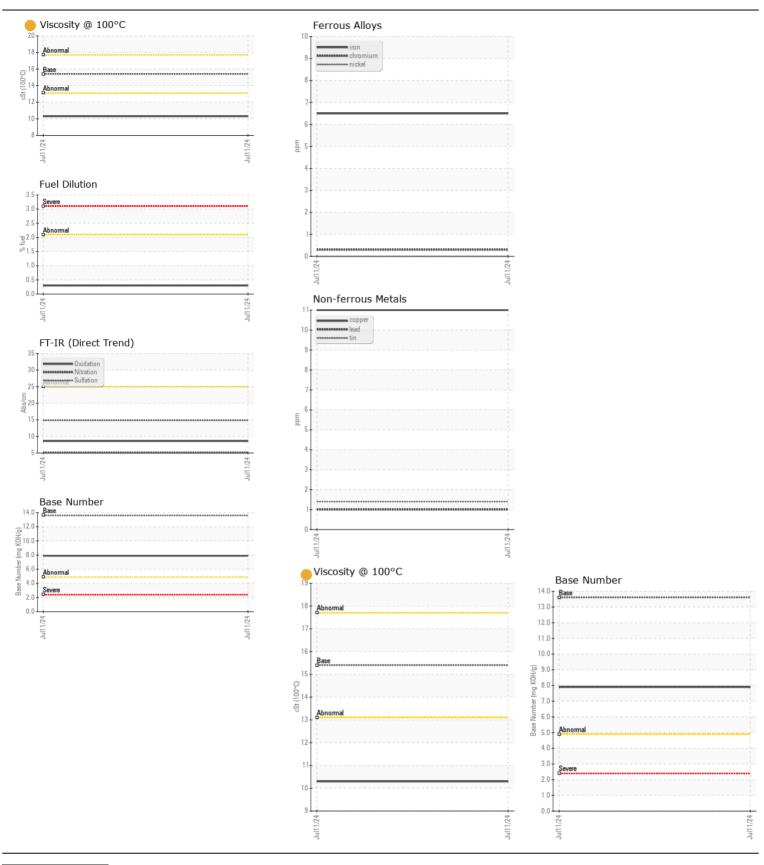
## JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (8 GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: A35889 )	Sample Number		Client Info		WE0007681		
	Sample Date		Client Info		11 Jul 2024		
	Machine Age	hrs	Client Info		3250		
	Oil Age	hrs	Client Info		100		
	Filter Age	hrs	Client Info		100		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ATTENTION		
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WEAR	Iron	ppm	ASTM D5185m	>51	6		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1		
	Nickel	ppm	ASTM D5185m	>5	0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m	>31	3		
	Lead	ppm	ASTM D5185m	>26	1		
	Copper	ppm	ASTM D5185m	>26	11		
	Tin	ppm	ASTM D5185m	>4	1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	0''''''''''''''''''''''''''''''''''''''						
	Silicon	ppm	ASTM D5185m		7		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3		
	Fuel	%	ASTM D3524		0.3 NEG		
	Water		WC Method WC Method	>0.21			
	Glycol Soot %	%		0	NEG		
			*ASTM D7844 *ASTM D7624		0 5.1		
	Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624	>20			
	Silt				14.8 NONE		
	Debris	scalar	*Visual	NONE			
		scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML NORML		
	Emulsified Water				NEG		
		scalar	*Visual	>0.21	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	0		
	Boron	ppm	ASTM D5185m		2		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		2		
	Molybdenum	ppm	ASTM D5185m		3		
	Manganese	ppm	ASTM D5185m		3		
	Magnesium	ppm	ASTM D5185m		41		
	Calcium	ppm	ASTM D5185m		2253		
	Phosphorus	ppm	ASTM D5185m		794		
	Zinc	ppm	ASTM D5185m		1012		
	Sulfur	ppm	ASTM D5185m		3316		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	8.6		
	Base Number (BN)		ASTM D2896		7.9		
		01	AOTH D 445	45.4			

Visc @ 100°C cSt

ASTM D445 15.4

10.3



WARRIOR TRACTOR AND EQUIPMENT - HUNTSVILLE Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 回清 Sample No. : WE0007681 Received 25135 ONE AVIATION WAY SW : 15 Jul 2024 Lab Number : 06235582 Tested MADISON, AL : 16 Jul 2024 Unique Number : 11124416 : 16 Jul 2024 - Don Baldridge US 35756 Diagnosed Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: HERBERT STONE Certificate L2367 WTE013@WARRIORTRACTOR.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. T: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)