

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Area

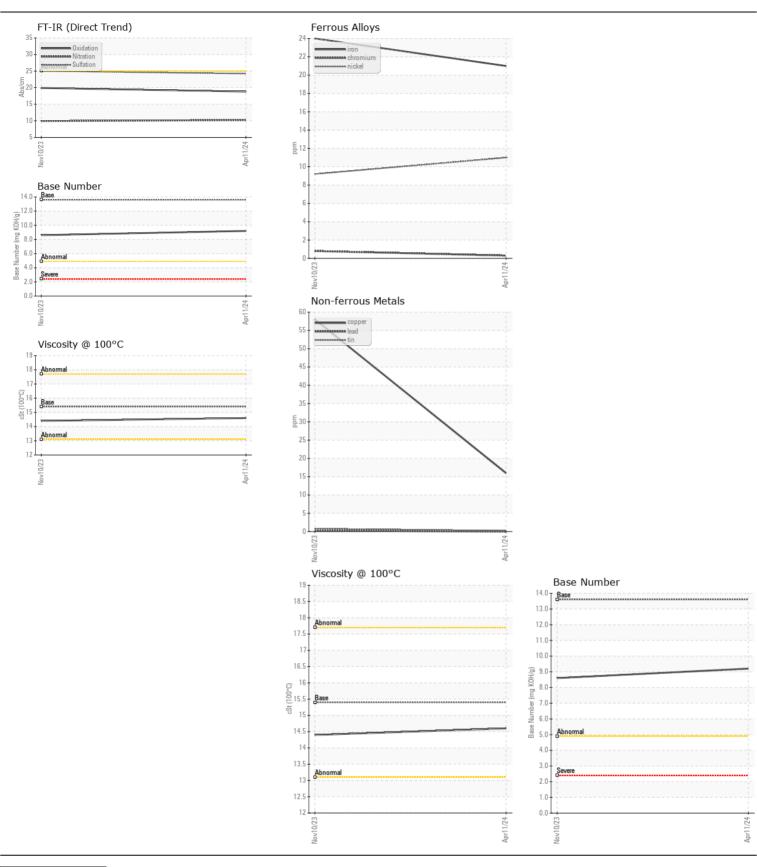
[G14819]

JOHN DEERE 530545

Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WE0007186	WE0006050	
	Sample Date		Client Info		11 Apr 2024	10 Nov 2023	
	Machine Age	hrs	Client Info		1294	940	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
VEAR	Iron	ppm	ASTM D5185m	>51	21	24	
	Chromium	ppm	ASTM D5185m	-	<1	<1	
All component wear rates are normal.	Nickel		ASTM D5185m		11	9	
	Titanium	ppm	ASTM D5185m	>0	0	0	
		ppm		0	-		
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		6	4	
	Lead	ppm	ASTM D5185m	-	0	<1	
	Copper	ppm	ASTM D5185m		16	58	
	Tin	ppm	ASTM D5185m	>4	<1	<1	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	8	6	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	1	
	Fuel		WC Method	>2.1	<1.0	<1.0	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.6	0.7	
	Nitration	Abs/cm	*ASTM D7624	>20	10.2	9.9	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.2	25.0	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.21	NEG	NEG	
LUID CONDITION	Cadium		ACTM DE10Em	. 01	· · · · · · · · · · · · · · · · · · ·	6	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>७।	3	6	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		213	148	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		289	224	
	Manganese	ppm	ASTM D5185m		0	1	
	Magnesium	ppm	ASTM D5185m		890	771	
	Calcium	ppm	ASTM D5185m		1581	1469	
	Phosphorus	ppm	ASTM D5185m		1073	921	
	Zinc	ppm	ASTM D5185m		1209	1135	
	Sulfur	ppm	ASTM D5185m		3156	2708	
	Oxidation	Abs/.1mm	*ASTM D7414		18.8	19.9	
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.2	8.6	
				15.4	14.6	14.4	





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WE0007186 Lab Number : 06151756

Tested Unique Number : 10981834 Diagnosed Test Package : CONST (Additional Tests: TBN)

Received : 17 Apr 2024 : 18 Apr 2024

: 18 Apr 2024 - Wes Davis

WARRIOR TRACTOR AND EQUIPMENT - GRAYSVILLE 4308 WATER TRAIL GRAYSVILLE, AL

US 35073 Contact: BEN BYRKET

bbyrket@warriortractor.com T: (205)675-9045

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)