

OIL ANALYSIS REPORT

NORMAL WEAR NORMAL CONTAMINATION **FLUID CONDITION ABNORMAL**

HERITAGE CONTRACTING [A33321]

JOHN DEERE 350P Heritage contracting (S/N 1FF350PACNF000316)

Oil Filter Diesel Engine

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

DECOMMENDATION	Toot		Mothod	limit/Abr	Current	Listend	Linton ()
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: A33322)	Sample Number		Client Info		WE0004818		
	Sample Date	la va	Client Info		25 Jun 2024		
	Machine Age	hrs	Client Info		742		
	Oil Age	hrs	Client Info		495 405		
	Filter Age	hrs	Client Info		495 Ohannad		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>51	57		
	Chromium	ppm	ASTM D5185m	>11	1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		14		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m		8		
	Lead	ppm	ASTM D5185m		3		
	Copper	ppm	ASTM D5185m		48		
	Tin	ppm	ASTM D5185m		4		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	13		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	8		
	Fuel	%	ASTM D3524		0.3		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	9.6		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.9		
	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				0.1	0		
	Sodium	ppm	ASTM D5185m	>31	8		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron	ppm	ASTM D5185m		131		
	Barium	ppm	ASTM D5185m		2		
	Molybdenum	ppm	ASTM D5185m ASTM D5185m		214		
	Manganese	ppm	ASTM D5185m ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m ASTM D5185m		773		
	Calcium	ppm			1491		
	Phosphorus	ppm	ASTM D5185m		854		
	Zinc	ppm	ASTM D5185m		1107		
	Sulfur	ppm	ASTM D5185m	. 05	3104		
	Oxidation	Abs/.1mm	*ASTM D7414		22.2		
	Base Number (BN)	ing KOH/g	ASTM D2896	13.0	7.0		

Visc @ 100°C cSt

ASTM D445 15.4

10.9



WARRIOR TRACTOR AND EQUIPMENT - HUNTSVILLE Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. :WE0004818 Received 25135 ONE AVIATION WAY SW : 27 Jun 2024 स Lab Number : 06222016 Tested MADISON, AL : 01 Jul 2024 : 01 Jul 2024 - Angela Borella US 35756 Unique Number : 11100213 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)