

Machine Id JOHN DEERE 544 P 1DW544PAVPLZ18223 Diesel Engine Fluid JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (21 GAL)

REC	OMN	IEND	ATIO	N

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

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	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0225418		
ted. Resample	Sample Date		Client Info		09 Jul 2024		
	Machine Age	hrs	Client Info		482		
	Oil Age	hrs	Client Info		482		
	Filter Age	hrs	Client Info		482		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
gnificant wear	Iron	ppm	ASTM D5185m	>51	29		
	Chromium	ppm	ASTM D5185m	>11	<1		
i.e. cooling	Nickel	ppm	ASTM D5185m	>5	2		
ent breaking	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m	>31	5		
	Lead	ppm	ASTM D5185m	>26	2		
	Copper	ppm	ASTM D5185m	>26	402		
	Tin	ppm	ASTM D5185m	>4	2		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	Silicon	000	AQTM DE10E-	<u></u>	13		
	Silicon Potassium	ppm	ASTM D5185m ASTM D5185m	>22 >20	4		
tamination in	Fuel	ppm %	ASTM D3185111 ASTM D3524	>20			
	Water	70	WC Method	>0.21	0.2 NEG		
	Glycol		WC Method	>0.21	NEG		
	Soot %	%	*ASTM D7844	<u>\</u> 2	0.2		
	Nitration	70 Abs/cm	*ASTM D7644	>3 >20	9.0		
	Sulfation	Abs/.1mm	*ASTM D7624	>20	23.0		
	Silt	scalar	*Visual	NONE	23.0 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		
		Scalai	Visual	20.21			
	Sodium	ppm	ASTM D5185m	>31	4		
	Boron	ppm	ASTM D5185m		241		
ates that	Barium	ppm	ASTM D5185m		<1		
l type.	Molybdenum	ppm	ASTM D5185m		270		
	Manganese	ppm	ASTM D5185m		5		
	Magnesium	ppm	ASTM D5185m		842		
	Calcium	ppm	ASTM D5185m		1433		
	Phosphorus	ppm	ASTM D5185m		968		
	Zinc	ppm	ASTM D5185m		1134		
	Sulfur	ppm	ASTM D5185m		2946		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4		
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.1		
	Visc @ 100°C	cSt	ASTM D445	15.4	10.0		
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WEAR

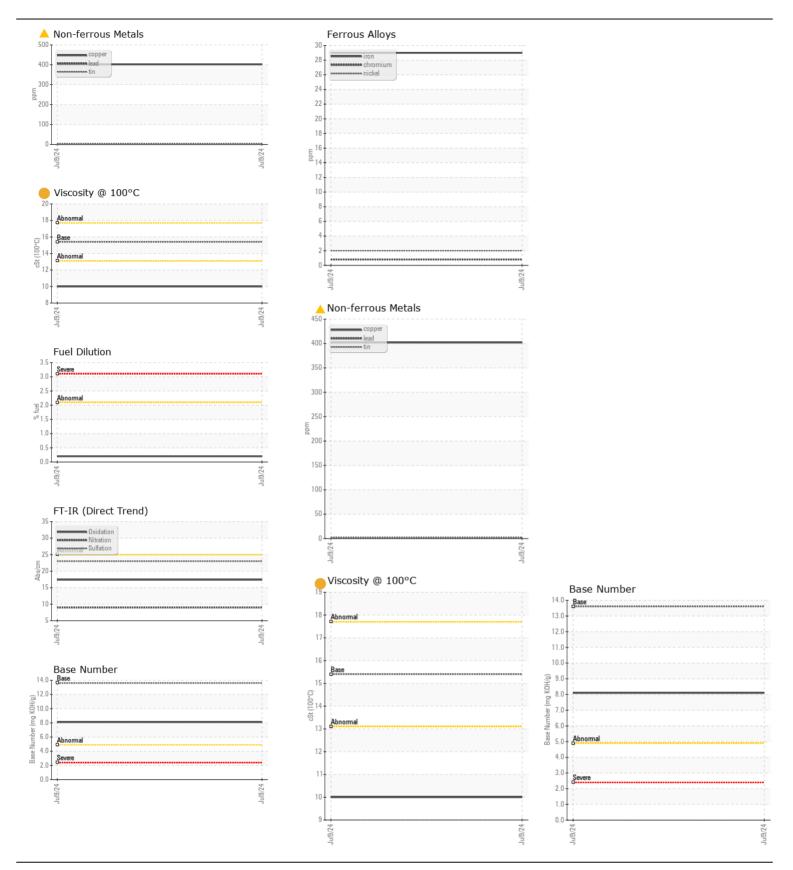
The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.

CONTAMINATION

Fuel content negligible. There is no indication of any contamination in the oil.

FLUID CONDITION

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



JRE - MANASSAS PARK Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : JR0225418 Received 9107 OWENS DRIVE : 11 Jul 2024 國 MANASSAS PARK, VA Lab Number : 06233070 Tested : 16 Jul 2024 : 16 Jul 2024 - Jonathan Hester US 20111 Unique Number : 11116563 Diagnosed Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: DON VEST Certificate L2367 dvest@jamesriverequipment.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: (703)631-8500 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (703)631-4715

Submitted By: TECHNICIAN ACCOUNT Page 2 of 2