

[05W47447] JOHN DEERE 844P 1DW844PACPLX07311 **Diesel Engine** JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (11 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR	
The copper level has decreased, but of other significant wear metals, susp than wear (i.e. cooling core). All othe	pect copper due to sources other

ITAMINATION

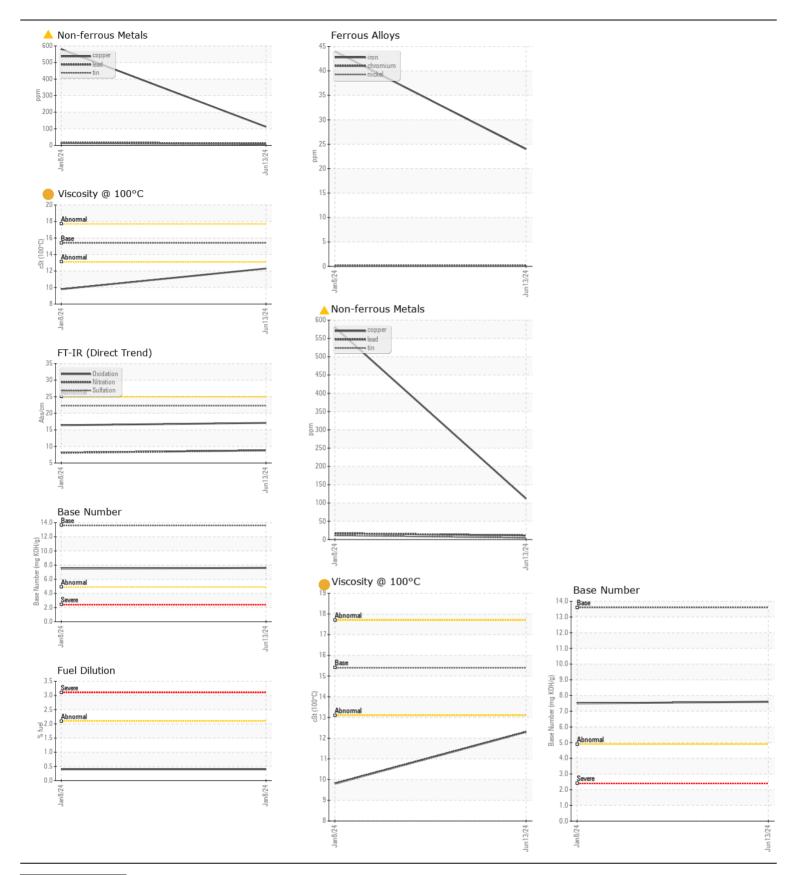
FLUID CONDITION

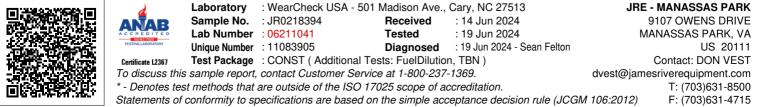
component breaking in.

There is no indication of any contamination in the oil.

	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0218394	JR0199320	
d. No	Sample Date		Client Info		13 Jun 2024	08 Jan 2024	
t the next	Machine Age	hrs	Client Info		954	439	
	Oil Age	hrs	Client Info		515	439	
	Filter Age	hrs	Client Info		515	439	
	Oil Changed	_	Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	ABNORMAL	
	Iron	ppm	ASTM D5185m	>51	24	44	
	Chromium	ppm	ASTM D5185m	>11	<1	<1	
e absence rces other	Nickel	ppm	ASTM D5185m	>5	0	0	
al for a new	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>31	4	5	
	Lead	ppm	ASTM D5185m	>26	11	17	
	Copper	ppm	ASTM D5185m	>26	🔺 112	▲ 580	
	Tin	ppm	ASTM D5185m	>4	4	11	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Silicon	ppm	ASTM D5185m	>22	7	17	
	Potassium	ppm	ASTM D5185m	>20	2	6	
	Fuel	%	ASTM D3524	>2.1	<1.0	0.4	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.4	0.4	
	Nitration	Abs/cm	*ASTM D7624	>20	8.8	8.1	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.3	22.3	
	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	scalar	*Visual	>0.21	NEG	NEG	
	Sodium	ppm	ASTM D5185m	>31	6	11	
es that	Boron	ppm	ASTM D5185m		104	230	
pe.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		216	259	
	Manganese	ppm	ASTM D5185m		4	20	
	Magnesium	ppm	ASTM D5185m		705	800	
	Calcium	ppm	ASTM D5185m		1398	1339	
	Phosphorus	ppm	ASTM D5185m		752	901	
	Zinc	ppm	ASTM D5185m		1019	1080	
	Sulfur	ppm	ASTM D5185m		2939	3088	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	16.4	
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.6	7.5	
	Visc @ 100°C	cSt	ASTM D445	15.4	12.3	9.8	

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





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