

## Machine Id JOHN DEERE 210P 1FF210PAEPF000857 Componen **Diesel Engine**

{not provided} (--- GAL)

## RECOMMENDATION

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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. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		JR0214925		
	Sample Date		Client Info		11 Jun 2024		
	Machine Age	hrs	Client Info		623		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR The copper level is abnormal. The nickel 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.	Iron	ppm	ASTM D5185m	>51	82		
	Chromium	ppm	ASTM D5185m	>11	3		
	Nickel	ppm	ASTM D5185m		<b>1</b> 7		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m		8		
	Lead	ppm	ASTM D5185m		2		
	Copper	ppm	ASTM D5185m		_ <b>A</b> 731		
	Tin	ppm	ASTM D5185m		5		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	0.111						
	Silicon	ppm	ASTM D5185m		14		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		4		
	Fuel	%	ASTM D3524	>2.1	0.2		
	Water		WC Method	>0.21	NEG		
	Glycol	%	*ASTM D2982		0.0		
	Soot %	%	*ASTM D7844		1.6		
	Nitration	Abs/cm	*ASTM D7624	>20	11.6		
	Sulfation	Abs/.1mm	*ASTM D7415		28.5		
	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 The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Sodium	ppm	ASTM D5185m	>31	8		
	Boron	ppm	ASTM D5185m		149		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		291		
	Manganese	ppm	ASTM D5185m		7		
	Magnesium	ppm	ASTM D5185m		920		
	Calcium	ppm	ASTM D5185m		1827		
	Phosphorus	ppm	ASTM D5185m		973		
	Zinc	ppm	ASTM D5185m		1312		
	Sulfur	ppm	ASTM D5185m		3371		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	23.1		
	Base Number (BN)		ASTM D2896	-	8.9		
		99					

Visc @ 100°C cSt

ASTM D445

## **FLUID CONDITION**

12.0



