

[47722] JOHN DEERE 310 P 1DW310PACPFB07661

Diesel Engine

{not provided} (--- GAL)

	Toot		Mathad	Limit/Abn	Cummont	Llistend	Lliatory
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		JR0225289		
	Sample Date	le un	Client Info		09 Jul 2024		
	Machine Age	hrs	Client Info		514		
	Oil Age	hrs	Client Info		514		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>51	53		
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		1		
	Nickel	ppm	ASTM D5185m		12		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m		7		
	Lead	ppm	ASTM D5185m		3		
	Copper	ppm	ASTM D5185m		27		
	Tin	ppm	ASTM D5185m	>4	2		
	Vanadium	ppm	ASTM D5185m	21	<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
		304141	Visual				
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	11		
	Potassium	ppm	ASTM D5185m	>20	11		
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>2.1	0.0		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	7.6		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.4		
	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	Sodium	ppm	ASTM D5185m	>31	9		
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.	Boron	ppm	ASTM D5185m		316		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		310		
	Manganoco	ppm	ASTM D5185m		2		
	Manganese		A OTHER DESIGN				
	Magnesium	ppm	ASTM D5185m		938		
	Magnesium Calcium	ppm	ASTM D5185m		1677		
	Magnesium Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m		1677 1106		
	Magnesium Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		1677 1106 1286		
	Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m		1677 1106		

Base Number (BN) mg KOH/g ASTM D2896

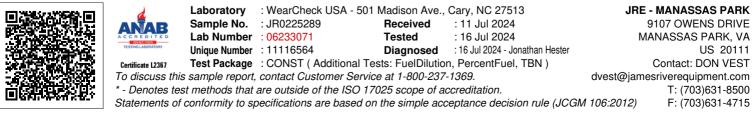
ASTM D445

Visc @ 100°C cSt

9.0

10.1





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