

Current

JR0206028

00 May 2024

History1

History2

### {UNASSIGNED} [W66793] Machine Id F1E1YN544GATPLA00158

# **Diesel Engine**

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

Test

Sample Number

Sample Date

UOM

Method

Client Info

Client Info

Limit/Abn

### RECOMMENDATION

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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. ( Customer Sample Comment: W66793 )

## 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.

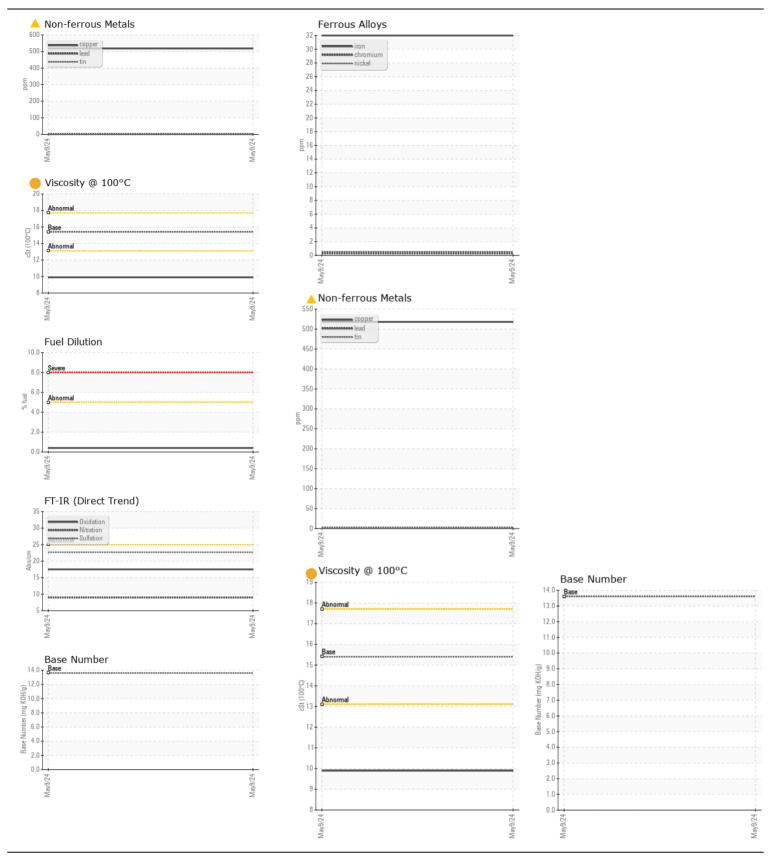
### CONTAMINATION

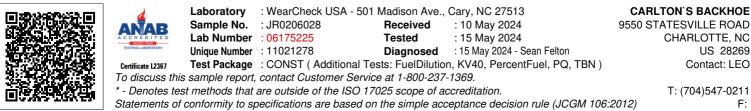
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

	Sample Date		Client Info		09	May 2024	 
	Machine Age	hrs	Client Info		45	56	 
	Oil Age	hrs	Client Info		45	56	 
	Filter Age	hrs	Client Info		0		 
	Oil Changed		Client Info		CI	hanged	 
	Filter Changed		Client Info		CI	hanged	 
	Sample Status						 
	······						 
	Iron	ppm	ASTM D5185m	>100		32	 
	Chromium	ppm	ASTM D5185m	>20		<1	 
ar	Nickel	ppm	ASTM D5185m	>4		<1	 
g	Titanium	ppm	ASTM D5185m			<1	 
9	Silver	ppm	ASTM D5185m	>3		0	 
	Aluminum	ppm	ASTM D5185m	>20		6	 
	Lead	ppm	ASTM D5185m	>40		1	 
	Copper	ppm	ASTM D5185m	>330		518	 
	Tin	ppm	ASTM D5185m	>15	_	2	 
	Vanadium	ppm	ASTM D5185m			0	 
	White Metal	scalar	*Visual	NONE		NONE	 
	Yellow Metal	scalar	*Visual	NONE		NONE	 
		304141	VISUAI				 
	Silicon	ppm	ASTM D5185m	>25		12	 
	Potassium	ppm	ASTM D5185m	>20		2	 
	Fuel	%	ASTM D3524	>5		0.4	 
	Water		WC Method	>0.2		NEG	 
	Glycol		WC Method			NEG	 
	Soot %	%	*ASTM D7844	>3		0.2	 
	Nitration	Abs/cm	*ASTM D7624	>20		9.0	 
	Sulfation	Abs/.1mm	*ASTM D7415	>30		22.7	 
	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		*Visual	>0.2		NEG	 
		Jouran	Violal	20.L			 
	Sodium	ppm	ASTM D5185m			6	 
	Boron	ppm	ASTM D5185m			230	 
	Barium	ppm	ASTM D5185m			2	 
	Molybdenum	ppm	ASTM D5185m			257	 
	Manganese	ppm	ASTM D5185m			7	 
	Magnesium	ppm	ASTM D5185m			852	 
	Calcium	ppm	ASTM D5185m			1469	 
	Phosphorus	ppm	ASTM D5185m			936	 
	Zinc	ppm	ASTM D5185m			1058	 
	Sulfur	ppm	ASTM D5185m			3255	 
	Oxidation	Abs/.1mm	*ASTM D3103111	>25		17.5	 
	Visc @ 100°C	cSt	ASTM D7414 ASTM D445	15.4		9.9	 
		001	A311VI D443	13.4		3.5	 

# 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.





Submitted By: Mike Young - CHARLOTTE SHOP Page 2 of 2