

[W22242-LELSTON] JOHN DEERE 4320 LV4320P330452

Diesel Engine

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

	- GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		JR0210801		
	Sample Date		Client Info		24 May 2024		
	Machine Age	hrs	Client Info		1525		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status		Oliciti IIIO		SEVERE		
					SEVENE		
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>51	8		
	Chromium	ppm	ASTM D5185m	>11	<1		
	Nickel	ppm	ASTM D5185m	>5	0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m		4		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		1		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m	21	<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
	renow weta	Scalar	visuai	NONE			
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	16		
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185m	>20	4		
	Fuel	%	ASTM D3524	>2.1	1 4.9		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	7.8		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7		
	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	scalar	*Visual	>0.21	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2		
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m		209		
	Barium	ppm	ASTM D5185m		<1		
	Molybdenum	ppm	ASTM D5185m		205		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		638		
	Calcium	ppm	ASTM D5185m		1192		
	Phosphorus	ppm	ASTM D5185m		755		

Zinc

Sulfur

Oxidation

Visc @ 100°C cSt

835

2775

14.7 7.6

9.2

ASTM D5185m

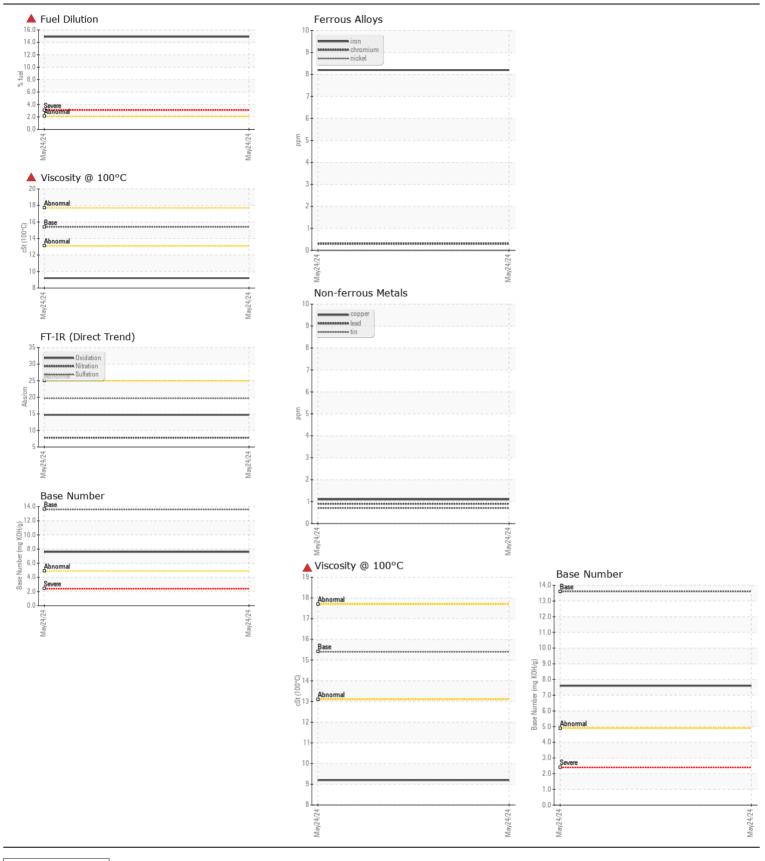
ASTM D445 15.4

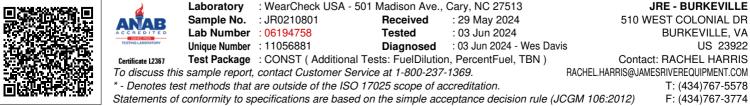
ppm ASTM D5185m

Abs/.1mm *ASTM D7414 >25

ppm

Base Number (BN) mg KOH/g ASTM D2896 13.6





Contact/Location: RACHEL HARRIS - JAMBUR Page 2 of 2