

Sample Number

Sample Date

Machine Age

Oil Changed

Sample Status

Oil Age

Water

Glycol

Iron

Nickel

Silver

Lead

Tin

Copper

Titanium

Aluminum

Vanadium

Cadmium

Boron

Barium

Molybdenum

Manganese

Magnesium

Phosphorus

Calcium

Zinc

ADDITIVES

Chromium

[HATCHELL CONCRETE] JOHN DEERE 544 P 1DW544PAANLZ14221 Component

Diesel Engine

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

DIAGNOSIS

Recommendation

The oil 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.

A Wear

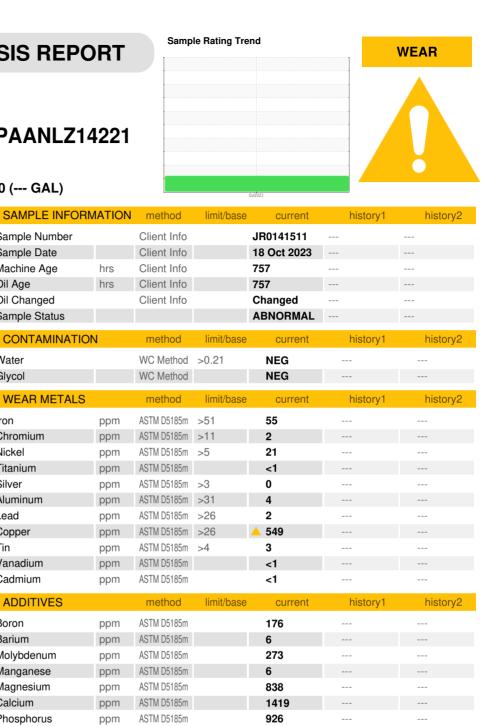
The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

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.



Sulfur	ppm	ASTM D5185m		3205		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	15		
Sodium	ppm	ASTM D5185m	>31	5		
Potassium	ppm	ASTM D5185m	>20	5		
Fuel	%	ASTM D3524	>2.1	0.4		
INFRA-RED		method	limit/base	current	history1	history2
INFRA-RED Soot %	%	method *ASTM D7844		current 0.3	history1	history2
	% Abs/cm		>3			
Soot %		*ASTM D7844 *ASTM D7624	>3	0.3		
Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624	>3 >20	0.3 9.7		

1101

8.3

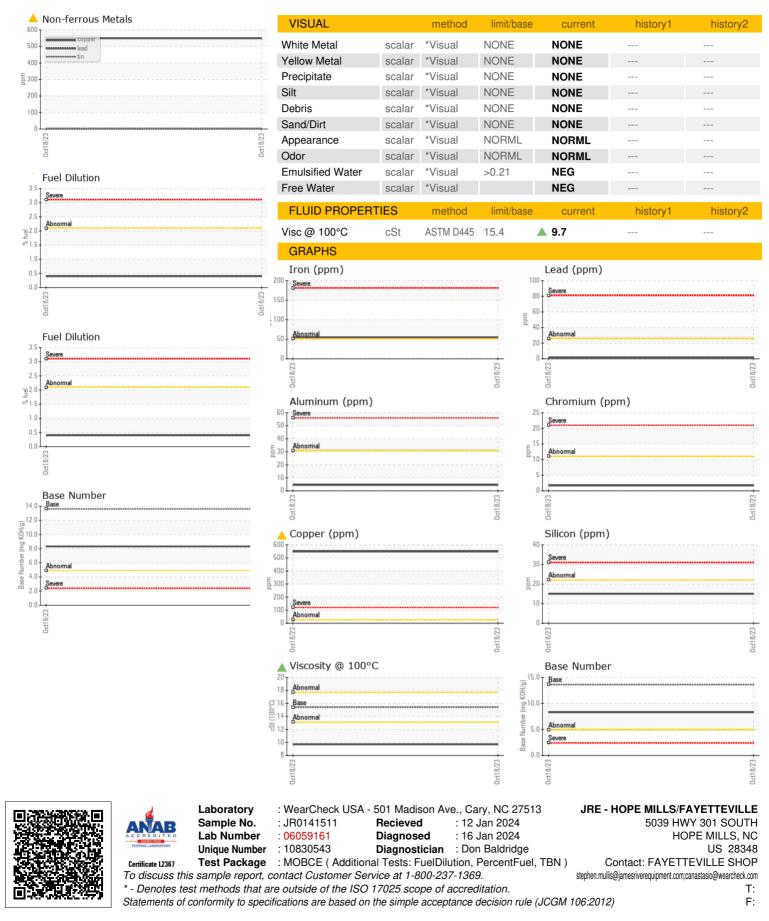
ASTM D5185m

ppm

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



OIL ANALYSIS REPORT



Contact/Location: FAYETTEVILLE SHOP - RWMFAY