

OIL ANALYSIS REPORT

Sample Number

Sample Date

Machine Age

Oil Changed

Sample Status

CONTAMINATION

WEAR METALS

ppm

ppm

ppm

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

ASTM D5185m >4

ASTM D5185m

ASTM D5185m

Oil Age

Water

Glycol

Iron

Nickel

Silver

Lead

Tin

Copper

Vanadium

Cadmium

Titanium

Aluminum

Chromium

[W9012] **JOHN DEERE 843L-II 1DW843LBCPL718522**

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (30 QTS)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: W9012)

A Wear

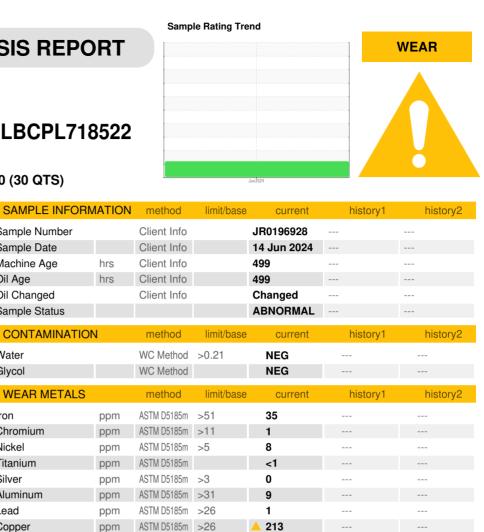
The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core).

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.



ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		190		
Barium	ppm	ASTM D5185m		3		
Molybdenum	ppm	ASTM D5185m		285		
Manganese	ppm	ASTM D5185m		6		
Magnesium	ppm	ASTM D5185m		869		
Calcium	ppm	ASTM D5185m		1485		
Phosphorus	ppm	ASTM D5185m		958		
Zinc	ppm	ASTM D5185m		1103		
Sulfur	ppm	ASTM D5185m		2939		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	16		
Sodium	ppm	ASTM D5185m	>31	5		
Potassium	ppm	ASTM D5185m	>20	21		
Fuel	%	ASTM D3524	>2.1	0.2		
Fuel	%	ASTM D3524 method	>2.1 limit/base		 history1	 history2
Fuel INFRA-RED Soot %	%			0.2		
INFRA-RED Soot %		method	limit/base	0.2 current	history1	history2
INFRA-RED Soot % Nitration	%	method *ASTM D7844	limit/base >3	0.2 current 0.5	history1	history2
INFRA-RED	% Abs/cm Abs/.1mm	method *ASTM D7844 *ASTM D7624	limit/base >3 >20	0.2 current 0.5 9.4	history1 	history2

8.6

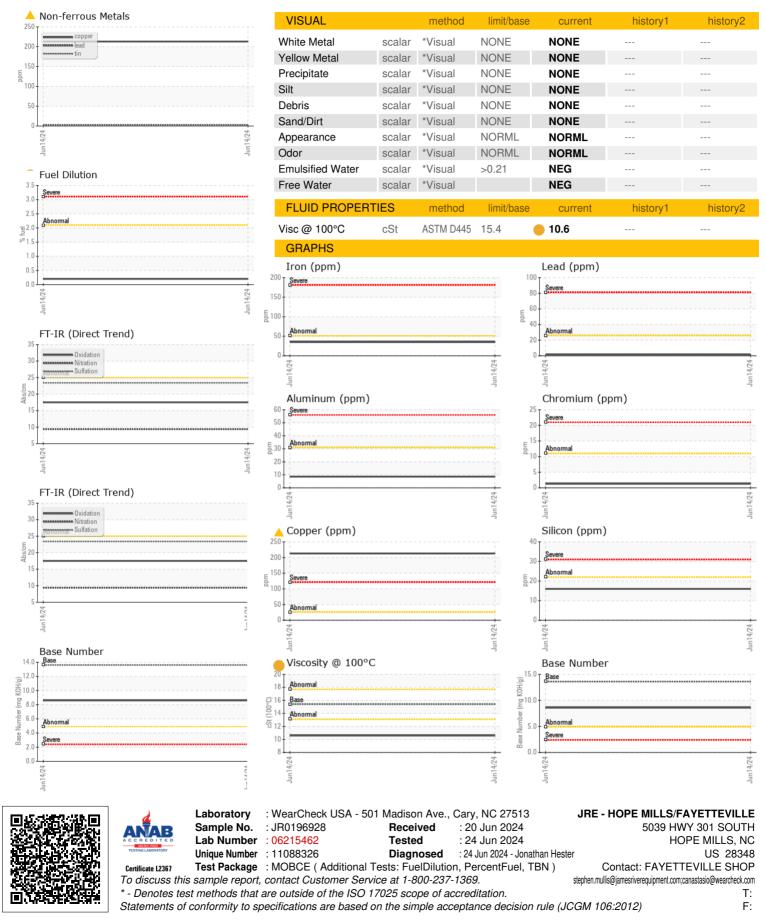
2

<1

<1



OIL ANALYSIS REPORT



Submitted By: Justin Jackson Page 2 of 2