

# **OIL ANALYSIS REPORT**

Sample Rating Trend

limit/base

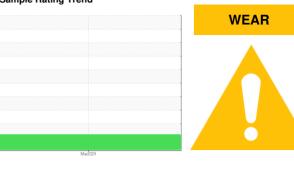
method



### Store 8 - Pikeville [148879] JOHN DEERE 410P 1DW410PAKPFA07335 Diesel Engine

Fluid JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (11 GAL)

SAMPLE INFORMATION



history1

current

history2

### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### 🔺 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 component wear rates are normal.

#### Contamination

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

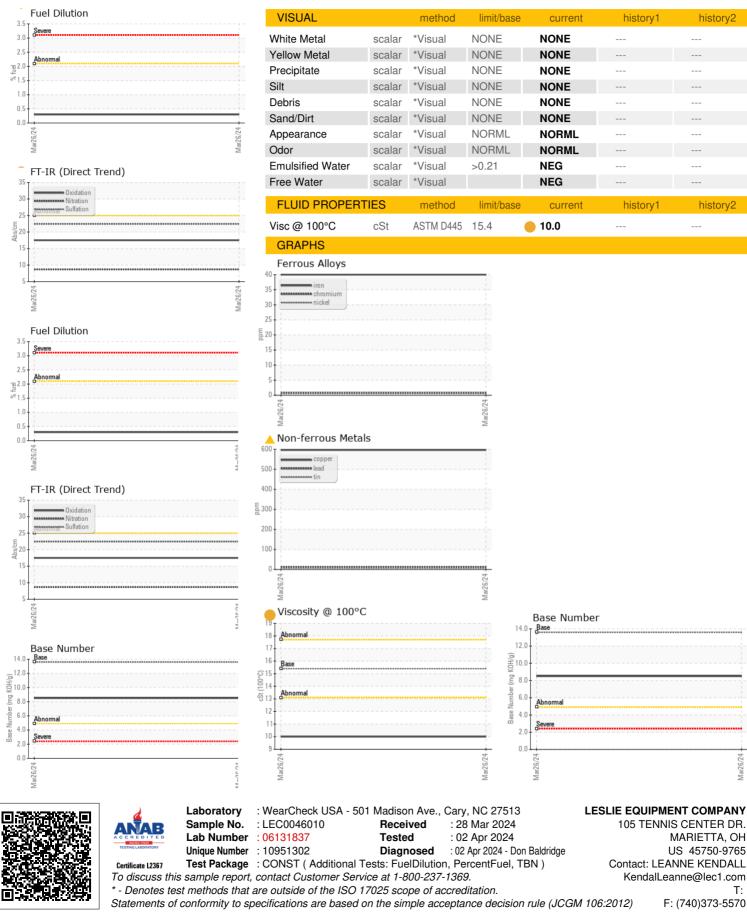
#### Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

		methou	IIIIII/Dase	Current	Thistory I	Thistory2
Sample Number		Client Info		LEC0046010		
Sample Date		Client Info		26 Mar 2024		
Machine Age	hrs	Client Info		516		
Oil Age	hrs	Client Info		516		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.21	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	40		
Chromium	ppm	ASTM D5185m	>11	<1		
Nickel	ppm	ASTM D5185m	>5	<1		
Titanium	ppm	ASTM D5185m	20	<1		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm	ASTM D5185m	>31	5		
Lead		ASTM D5185m	>26	5 11		
	ppm	ASTM D5185m	>26	▲ 596		
Copper Tin	ppm	ASTM D5185m	>20	8		
	ppm		>4	-		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		209		
Barium	ppm	ASTM D5185m		2		
Molybdenum	ppm	ASTM D5185m		268		
Manganese	ppm	ASTM D5185m		11		
Magnesium	ppm	ASTM D5185m		772		
Calcium	ppm	ASTM D5185m		1396		
Phosphorus	ppm	ASTM D5185m		890		
Zinc	ppm	ASTM D5185m		1070		
Sulfur	ppm	ASTM D5185m		2931		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>!20	16		
Sodium	ppm	ASTM D5185m	>31	10		
Potassium	ppm	ASTM D5185m	>20	6		
Fuel	%	ASTM D3524	>2.1	0.3		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	8.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4		
FLUID DEGRADA		method	limit/base	current	history1	history2
Ovidation		*ASTM D7/1/	>25	17 5		
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 13.6	17.5 8.5		



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Submitted By: STORE 8 - PIKEVILLE - MICHELLE LITTLE

T:

history2

historv2