

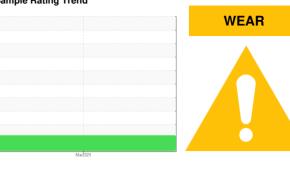
OIL ANALYSIS REPORT

Sample Rating Trend



Store 8 - Pikeville [148875] JOHN DEERE 410P 1DW410PAAPFA07549 Diesel Engine

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



	A	GI	VV	5	5	

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 metal levels are typical for a new component breaking in.

Contamination

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

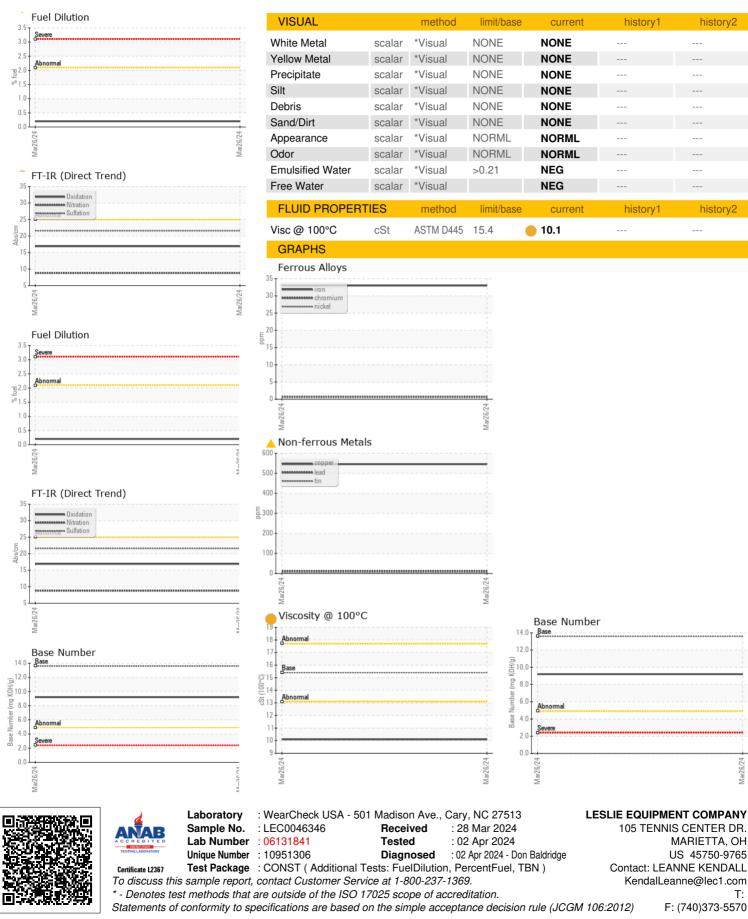
Fluid Condition

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

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		LEC0046346		
Sample Date		Client Info		26 Mar 2024		
Machine Age	hrs	Client Info		449		
Oil Age	hrs	Client Info		449		
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	33		
Chromium	ppm	ASTM D5185m	>11	<1		
Nickel	ppm	ASTM D5185m	>5	<1		
Titanium	ppm	ASTM D5185m	-	<1		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm	ASTM D5185m	>31	5		
Lead	ppm	ASTM D5185m	>26	11		
Copper	ppm	ASTM D5185m	>26	<u>∧</u> 545		
Tin	ppm	ASTM D5185m	>4	7		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	nom	ASTM D5185m		268		
Barium	ppm ppm	ASTM D5185m		<1		
Molybdenum		ASTM D5185m		274		
Manganese	ppm ppm	ASTM D5185m		11		
Magnesium	ppm	ASTIVI DUTOUIII				
	nnm	ASTM D5185m		000		
0	ppm	ASTM D5185m		822		
Calcium	ppm	ASTM D5185m		1453		
Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m		1453 953		
Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		1453 953 1112		
Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/bassa	1453 953 1112 3300		
Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base	1453 953 1112 3300 current	 history1	
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	>!20	1453 953 1112 3300 current 16	 history1 	 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	>!20 >31	1453 953 1112 3300 current 16 7	 history1 	
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>!20 >31 >20	1453 953 1112 3300 current 16 7 6	 history1 	 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524	>!20 >31 >20 >2.1	1453 953 1112 3300 current 16 7 6 0.2	 history1 	 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524	>!20 >31 >20 >2.1 limit/base	1453 953 1112 3300 current 16 7 6 0.2 current	 history1 	 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844	>!20 >31 >20 >2.1 limit/base >3	1453 953 1112 3300 current 16 7 6 0.2 current 0.2	 history1 history1 	 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 Method *ASTM D7844 *ASTM D7624	>!20 >31 >20 >2.1 limit/base >3 >20	1453 953 1112 3300 current 16 7 6 0.2 current 0.2 8.8	 history1 history1	 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 ASTM D3524 method *ASTM D7844	>!20 >31 >20 >2.1 limit/base >3	1453 953 1112 3300 current 16 7 6 0.2 current 0.2	 history1 history1 	 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 Method *ASTM D7844 *ASTM D7624	>!20 >31 >20 >2.1 limit/base >3 >20	1453 953 1112 3300 current 16 7 6 0.2 current 0.2 8.8	 history1 history1 	 history2 history2 history2
Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 *ASTM D7844 *ASTM D7624	>!20 >31 >20 >2.1 limit/base >3 >20 >30	1453 953 1112 3300 current 16 7 6 0.2 current 0.2 8.8 21.6	 history1 history1 history1	 history2 history2 history2



OIL ANALYSIS REPORT



Submitted By: STORE 8 - PIKEVILLE - MICHELLE LITTLE