

OIL ANALYSIS REPORT

Sample Rating Trend

Machine Id

JOHN DEERE 750L 1T0750LXCRF466564

Diesel Engine

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

DIAGNOSIS

A Recommendation

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. Moderate concentration of visible metal present. 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

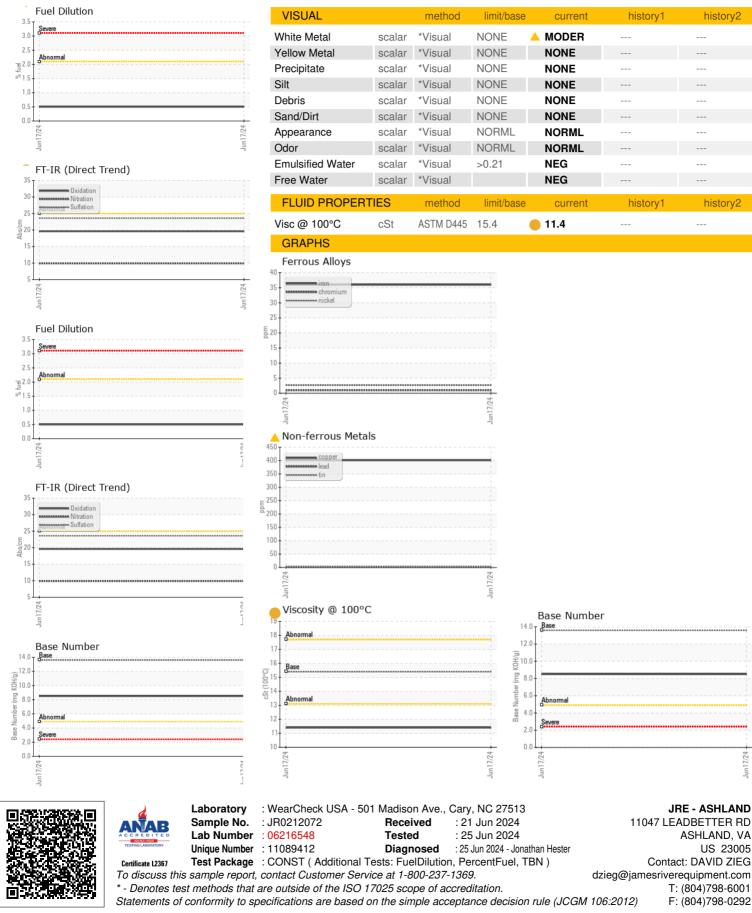
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

0 (GAL)				Jun2024		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0212072		
Sample Date		Client Info		17 Jun 2024		
Machine Age	hrs	Client Info		493		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION	J	method	limit/base	current	history1	history2
Water		WC Method	>0.21	NEG		
Glycol		WC Method		NEG		
,			11 11 11			
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	36		
Chromium	ppm	ASTM D5185m	>11	1		
Nickel	ppm	ASTM D5185m	>5	3		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>31	5		
Lead	ppm	ASTM D5185m	>26	<1		
Copper	ppm	ASTM D5185m	>26	<u> </u>		
Tin	ppm	ASTM D5185m	>4	2		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		131		
Barium	ppm	ASTM D5185m		2		
Molybdenum	ppm	ASTM D5185m		248		
Manganese	ppm	ASTM D5185m		3		
Magnesium	ppm	ASTM D5185m		851		
Calcium	ppm	ASTM D5185m		1582		
Phosphorus	ppm	ASTM D5185m		936		
Zinc	ppm	ASTM D5185m		1202		
				1202		
Sumur	nnm	ASTIMUUSIASM		2587		
	ppm	ASTM D5185m	limit/base	2587		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	method ASTM D5185m	>22	current 10	history1	history2
CONTAMINANTS Silicon Sodium	ppm ppm	method ASTM D5185m ASTM D5185m	>22 >31	current 10 3	history1 	history2
CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	>22 >31 >20	current 10 3 4	history1	history2
CONTAMINANTS Silicon Sodium Potassium	ppm ppm	method ASTM D5185m ASTM D5185m	>22 >31 >20	current 10 3	history1 	history2
CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	>22 >31 >20	current 10 3 4	history1 	history2
CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524	>22 >31 >20 >2.1	current 10 3 4 0.5	history1 	history2
CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm %	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method	>22 >31 >20 >2.1 limit/base	current 10 3 4 0.5 current	history1 history1	history2
CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm %	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844	>22 >31 >20 >2.1 limit/base >3	current 10 3 4 0.5 current 0.4	history1 history1 	history2
CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm % % Abs/cm Abs/.1mm	method ASTM D5185m ASTM D5185m ASTM D3524 ASTM D3524 method *ASTM D7844 *ASTM D7624	>22 >31 >20 >2.1 limit/base >3 >20	current 10 3 4 0.5 current 0.4 9.9	history1 history1 history1	history2 history2 history2 history2 history2
CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm % % Abs/cm Abs/.1mm	method ASTM D5185m ASTM D5185m ASTM D3524 ASTM D3524 *ASTM D7844 *ASTM D7624	>22 >31 >20 >2.1 limit/base >3 >20 >30	current 10 3 4 0.5 current 0.4 9.9 23.6	history1 history1 	history2





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