

OIL ANALYSIS REPORT

Area [W49140] JOHN DEERE 331G 1T0331GKELF370893 Component

Diesel Engine

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

DIAGNOSIS

Recommendation

Oil and filter 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.

🔺 Wear

Cylinder, crank, or cam shaft wear is indicated. Bearing and/or bushing wear is indicated.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

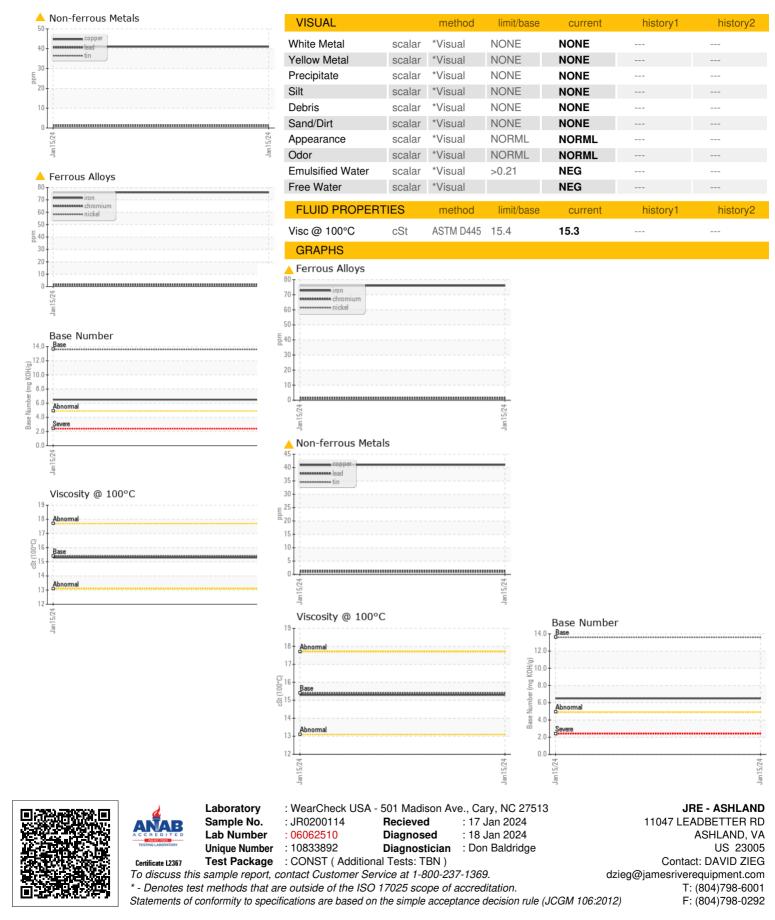
0 (GAL)				Jan 2024		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0200114		
Sample Date		Client Info		15 Jan 2024		
Vachine Age	hrs	Client Info		1246		
Oil Age	hrs	Client Info		1246		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION	l	method	limit/base	current	history1	history2
Fuel		WC Method	>2.1	<1.0		
Water		WC Method	>0.21	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	76		
Chromium	ppm	ASTM D5185m		2		
Nickel	ppm	ASTM D5185m	>5	- <1		
Titanium	ppm	ASTM D5185m	20	<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>31	6		
Lead	ppm	ASTM D5185m	>26	1		
Copper	ppm	ASTM D5185m		<u> </u>		
Tin	ppm	ASTM D5185m	>4	<1		
Vanadium	ppm	ASTM D5185m	~ 1	<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		33		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		83		
Manganese	ppm	ASTM D5185m		2		
Magnesium	ppm	ASTM D5185m		660		
Calcium	ppm	ASTM D5185m		2108		
Phosphorus	ppm	ASTM D5185m		876		
Zinc	ppm	ASTM D5185m		1175		
Sulfur	ppm	ASTM D5185m		2274		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	18		
		ASTM D5185m	>31	4		
Sodium	DDIII		201			
	ppm ppm	ASTM D5185m	>20	1		
Potassium INFRA-RED		ASTM D5185m method	>20 limit/base	1 current		
Potassium INFRA-RED Soot %	ppm %	ASTM D5185m method *ASTM D7844	>20 limit/base >3	1	 history1	 history2
Potassium INFRA-RED Soot % Nitration	ppm	ASTM D5185m method	>20 limit/base >3 >20	1 current 0.8	 history1 	 history2
Potassium INFRA-RED Soot % Nitration	ppm % Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624	>20 limit/base >3 >20	1 current 0.8 15.1	 history1 	history2
Soot % Nitration Sulfation	ppm % Abs/cm Abs/.1mm	ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415	>20 limit/base >3 >20 >30	1 current 0.8 15.1 29.2	 history1 	 history2

Sample Rating Trend

WEAR



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Contact/Location: DAVID ZIEG - JAMASH