

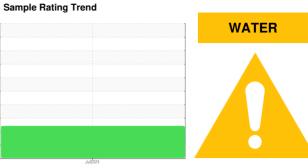
OIL ANALYSIS REPORT

[W22838-WILSON]

JOHN DEERE 331G 1T0331GMCKF368277

Diesel Engine

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



DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. Resample at the next service interval to monitor.

The copper level is abnormal. All other component wear rates are normal.

Contamination

There is a moderate concentration of water present in the oil.

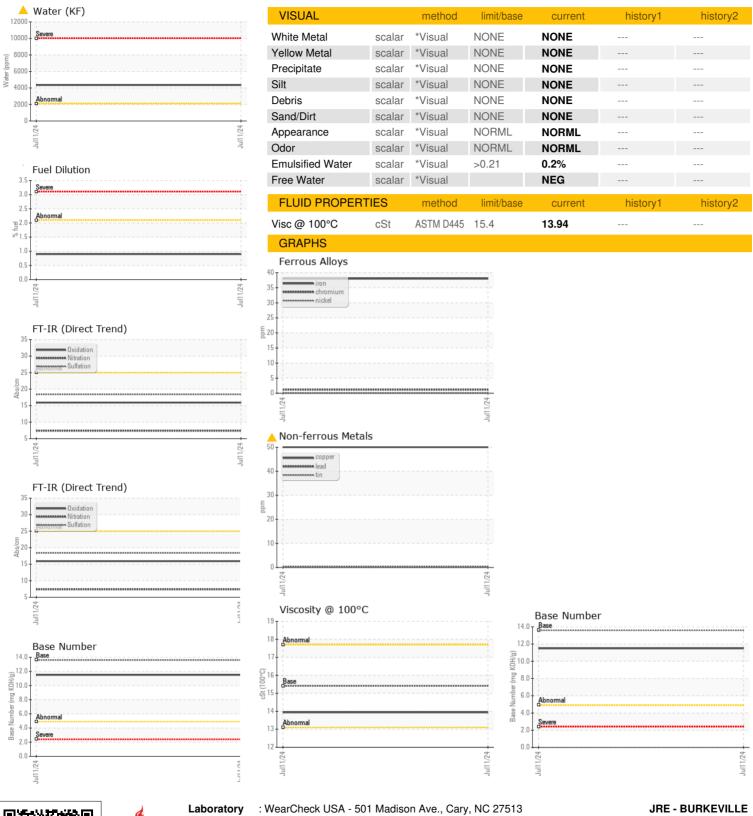
Fluid Condition

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

40 (GAL)				Jul2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0225873		
Sample Date		Client Info		11 Jul 2024		
Machine Age	hrs	Client Info		1450		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINATION	N	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	38		
Chromium	ppm	ASTM D5185m	>11	1		
Nickel	ppm	ASTM D5185m	>5	0		
Titanium	ppm	ASTM D5185m		1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>31	22		
Lead	ppm	ASTM D5185m	>26	<1		
Copper	ppm	ASTM D5185m	>26	<u>^</u> 50		
Tin	ppm	ASTM D5185m	>4	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		58		
Barium	ppm	ASTM D5185m		<1		
Molybdenum	ppm	ASTM D5185m		51		
Manganese	ppm	ASTM D5185m		2		
Magnesium	ppm	ASTM D5185m		510		
Calcium	ppm	ASTM D5185m		1719		
Phosphorus	ppm	ASTM D5185m		1085		
Zinc	ppm	ASTM D5185m		1272		
Sulfur	ppm	ASTM D5185m		3857		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	13		
Sodium	ppm	ASTM D5185m	>31	2		
Potassium	ppm	ASTM D5185m	>20	3		
Fuel	%	ASTM D3524	>2.1	0.9		
Water	%	ASTM D6304	>0.21	△ 0.435		
ppm Water	ppm	ASTM D6304	>2100	4350		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	7.4		
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.9		
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	11.5		



OIL ANALYSIS REPORT







Certificate 12367

Sample No.

: JR0225873 Lab Number : 06237438 Unique Number : 11126272

Received **Tested** Diagnosed

: 15 Jul 2024 : 18 Jul 2024

: 19 Jul 2024 - Jonathan Hester Test Package : CONST (Additional Tests: FuelDilution, KF, PercentFuel, TBN)

BURKEVILLE, VA US 23922 Contact: BRANDON BOLLING bbolling@jamesriverequipment.com

510 WEST COLONIAL DR

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (434)767-5578 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (434)767-3774

Report Id: JAMBUR [WUSCAR] 06237438 (Generated: 07/19/2024 11:07:51) Rev: 1

Contact/Location: BRANDON BOLLING - JAMBUR