

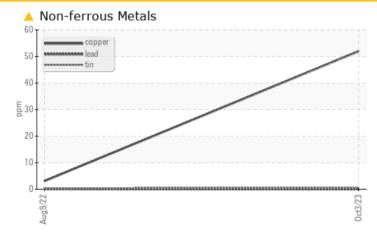
## **PROBLEM SUMMARY**

### Area [W47006] Machine Id JOHN DEERE 323E 1T0323EKTJJ328397 Component

Diesel Engine

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

### COMPONENT CONDITION SUMMARY



### RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	NORMAL		
Copper	ppm	ASTM D5185m	>26	<u> </u>	3		

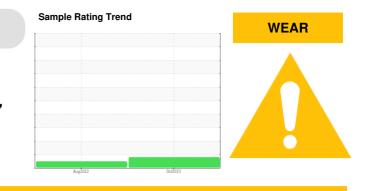
Customer Id: JAMASH Sample No.: JR0179333 Lab Number: 05968685 Test Package: CONST



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Jonathan Hester +1 919-379-4092 x4092 <u>jhester@wearcheckusa.com</u>

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>



There are no recommended actions for this sample.

### HISTORICAL DIAGNOSIS

### 09 Aug 2022 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





## **OIL ANALYSIS REPORT**

Sample Number

hrs

hrs

Sample Date

Machine Age

Oil Changed

Sample Status

CONTAMINATION

Oil Age

Fuel

Glycol

### [W47006] JOHN DEERE 323E 1T0323EKTJJ328397 Component

**Diesel Engine** Fluid

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

### DIAGNOSIS

### Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

### A Wear

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

### 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 acceptable for the time in service.



WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	34	22	
Chromium	ppm	ASTM D5185m	>11	1	<1	
Nickel	ppm	ASTM D5185m	>5	<1	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>3	0	<1	
Aluminum	ppm	ASTM D5185m	>31	9	4	
Lead	ppm	ASTM D5185m	>26	0	<1	
Copper	ppm	ASTM D5185m	>26	<u> </u>	3	
Tin	ppm	ASTM D5185m	>4	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		190	242	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		206	41	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m		751	124	
Calcium	ppm	ASTM D5185m		1667	2108	
Phosphorus	ppm	ASTM D5185m		955	953	
Zinc	ppm	ASTM D5185m		1233	1177	
Sulfur	ppm	ASTM D5185m		2980	3511	
CONTAMINANTS		method	limit/base	current	history1	history2

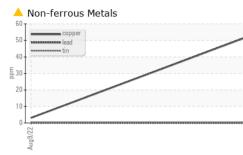
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Silicon	ppm	ASTM D5185m	>22	14	15	
Sodium	ppm	ASTM D5185m	>31	2	<1	
Potassium	ppm	ASTM D5185m	>20	2	8	

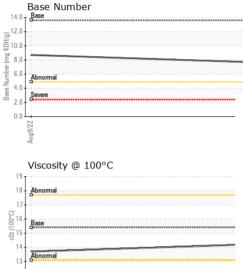
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	8.9	8.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	22.3	
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	18.0	
Base Number (BN)	ma KOH/a	ASTM D2896	13.6	7.7	8.7	

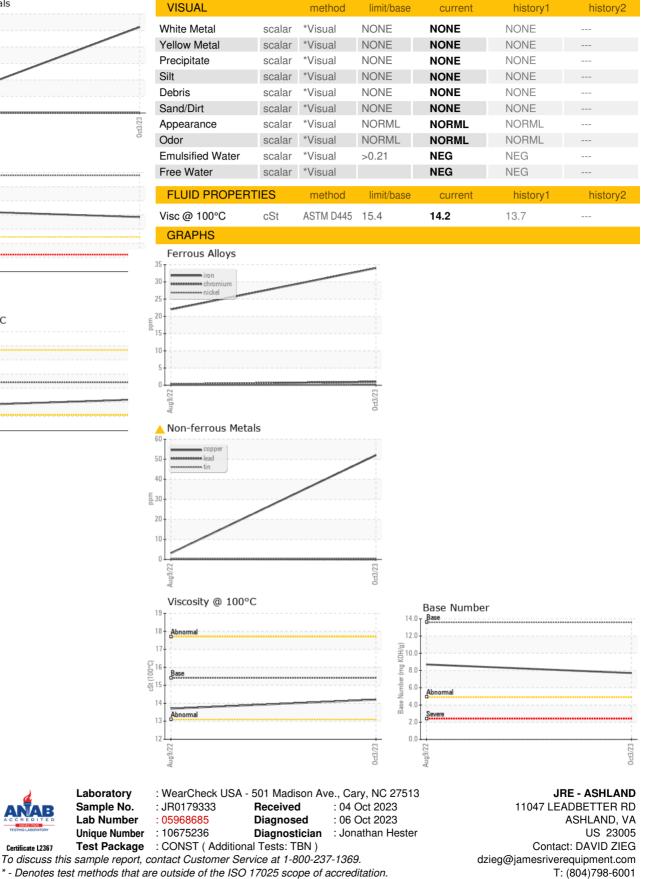


12 Aug9/22 -

# **OIL ANALYSIS REPORT**







\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

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