

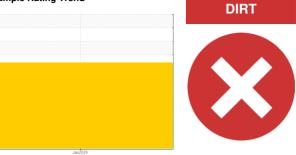
PROBLEM SUMMARY

Sample Rating Trend

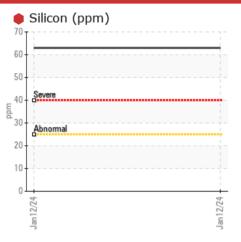
JOHN DEERE 331G NUTRIDENSE 331G (S/N 1T0331GMPJF333927)

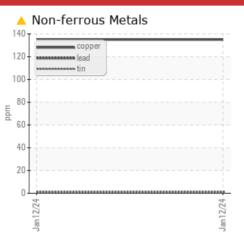
Rear Center Diesel Engine

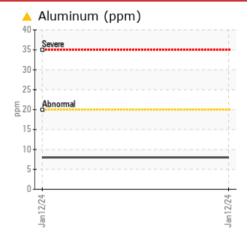
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (3 GAL)



COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE					
Copper	ppm	ASTM D5185m	>85	135					
Silicon	nnm	ASTM D5185m	>25	63					

Customer Id: JAMASH **Sample No.:** JR0106792 Lab Number: 06063301 Test Package: MOBCE



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

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

RECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description	
Resample			?	We recommend an early resample to monitor this condition.	
Check Dirt Access			?	We advise that you check the air filter, air induction system, and any areas where dirt may enter the component.	

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend

JOHN DEERE 331G NUTRIDENSE 331G (S/N 1T0331GMPJF333927)

Rear Center Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W

DIAGNOSIS

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend an early resample to monitor this condition.

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 component wear rates are normal.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

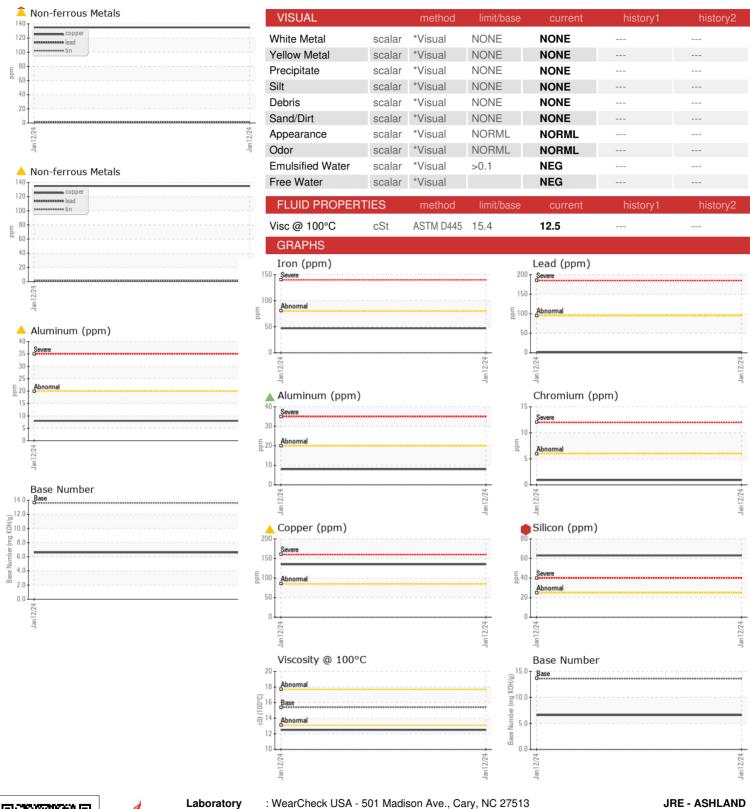
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil.

10 (3 GAL)				Jan 2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0106792		
Sample Date		Client Info		12 Jan 2024		
Machine Age	hrs	Client Info		2500		
Oil Age	hrs	Client Info		500		
Oil Changed		Client Info		Diff Oil		
Sample Status				SEVERE		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>80	47		
Chromium	ppm	ASTM D5185m	>6	<1		
Nickel	ppm	ASTM D5185m	>2	<1		
itanium	ppm	ASTM D5185m	>2	<1		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>20	& 8		
_ead	ppm	ASTM D5185m	>95	1		
Copper	ppm	ASTM D5185m	>85	135		
Γin	ppm	ASTM D5185m	>9	1		
/anadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		96		
Barium	ppm	ASTM D5185m		2		
Molybdenum	ppm	ASTM D5185m		265		
Manganese	ppm	ASTM D5185m		2		
Magnesium	ppm	ASTM D5185m		775		
Calcium	ppm	ASTM D5185m		1811		
Phosphorus	ppm	ASTM D5185m		891		
Zinc	ppm	ASTM D5185m		1138		
Sulfur	ppm	ASTM D5185m		2935		
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6 3		
Sodium	ppm	ASTM D5185m		14		
Potassium	ppm	ASTM D5185m	>20	3		
-uel	%	ASTM D3524	>4.0	<1.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.4		
Nitration	Abs/cm	*ASTM D7624	>20	12.6		
Sulfation	Abs/.1mm	*ASTM D7415	>30	29.0		
FLUID DEGRAD	ATION_	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	28.8		
Base Number (BN)		ASTM D2896	13.6	6.6		
Jase Namber (DIV)	ilig NOII/g	7.0 TWI D2030	10.0	0.0		



OIL ANALYSIS REPORT





Laboratory Sample No. Lab Number **Unique Number**

: 06063301 : 10834683

: JR0106792

Recieved Diagnosed

: 19 Jan 2024 Diagnostician : Don Baldridge Test Package : MOBCE (Additional Tests: FuelDilution, PercentFuel, TBN)

: 17 Jan 2024

11047 LEADBETTER RD ASHLAND, VA US 23005

Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: DUSTIN HATCHETT dustin.hatchett@jamesriverequipment.com

* - 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)

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