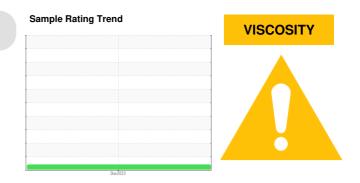


PROBLEM SUMMARY

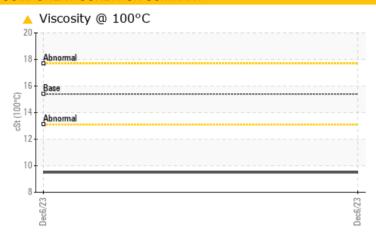
MRT3046R John Deere 3046r MRT 3046R

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (1 GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: Engine has oil consumption)

PROBLEMATIC TEST RESULTS								
Sample Status				ATTENTION				
Visc @ 100°C	cSt	ASTM D445	15.4	9.5				

Customer Id: JAMMOUJR **Sample No.:** JR0137352 Lab Number: 06027570 Test Package: MOBCE To manage this report scan the QR code To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 ihester@wearcheckusa.com To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Fluid			?	Oil and filter change at the time of sampling has been noted.		
Change Filter			?	Oil and filter change at the time of sampling has been noted.		

HISTORICAL DIAGNOSIS

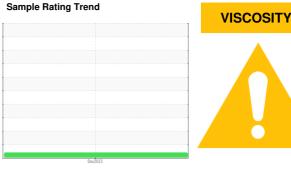


OIL ANALYSIS REPORT

[MRT3046R] John Deere 3046r MRT 3046R

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (1 GAL)



DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: Engine has oil consumption)

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

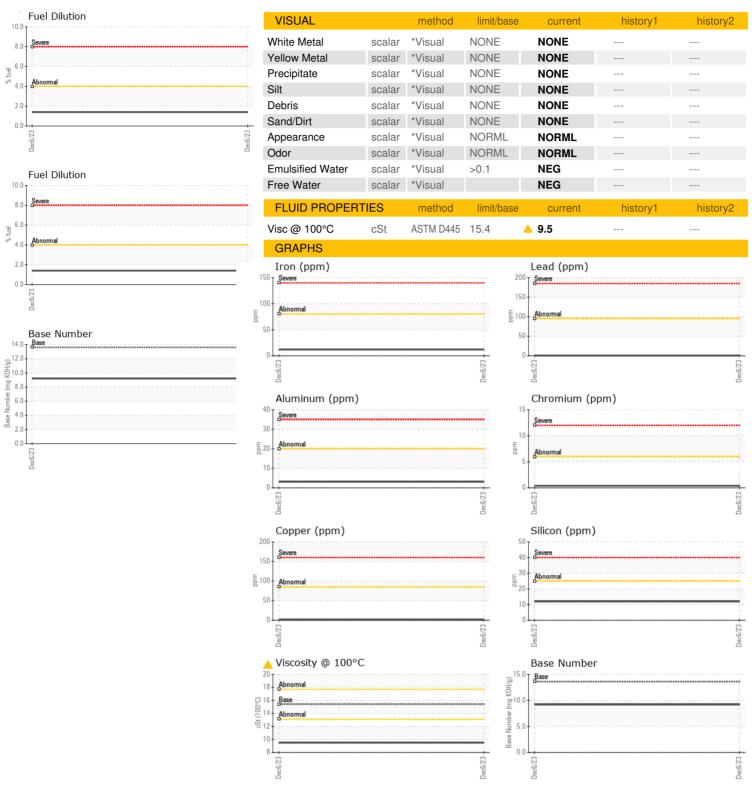
Fluid Condition

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

+0 (1 GAL)				Dec2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0137352		
Sample Date		Client Info		06 Dec 2023		
Machine Age	hrs	Client Info		1115		
Oil Age	hrs	Client Info		8		
Oil Changed		Client Info		Changed		
Sample Status				ATTENTION		
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
Iron	ppm	ASTM D5185m	>80	12		
Chromium	ppm	ASTM D5185m	>6	<1		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m	>2	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>20	3		
Lead	ppm	ASTM D5185m	>95	<1		
Copper	ppm	ASTM D5185m	>85	1		
Tin	ppm	ASTM D5185m	>9	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		266		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		104		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		578		
Calcium	ppm	ASTM D5185m		1378		
Phosphorus	ppm	ASTM D5185m		633		
Zinc	ppm	ASTM D5185m		738		
Sulfur	ppm	ASTM D5185m		2099		
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	12		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	<1		
Fuel	%	ASTM D3524	>4.0	1.4		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.7		
Nitration	Abs/cm	*ASTM D7624	>20	8.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4		
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.2		
\ /	0					



OIL ANALYSIS REPORT







Certificate L2367

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

: 06027570 : 10777361

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0137352 Received : 07 Dec 2023 : 14 Dec 2023 Diagnosed Test Package : MOBCE (Additional Tests: FuelDilution, PercentFuel, TBN)

Diagnostician : Jonathan Hester

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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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