

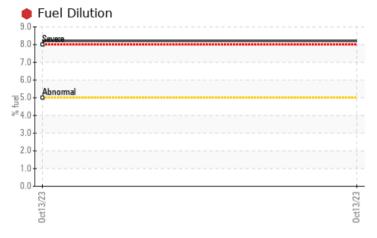
PROBLEM SUMMARY

Area [W7649] Machine Id 687635 Component

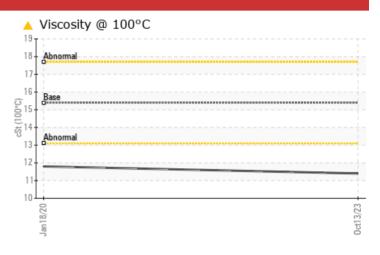
Diesel Engine

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

COMPONENT CONDITION SUMMARY



Sample Rating Trend FUEL



RECOMMENDATION

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. (Customer Sample Comment: W7649)

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	ABNORMAL				
Fuel	%	ASTM D3524	>5	8 .2	<1.0				
Visc @ 100°C	cSt	ASTM D445	154	A 11 4	A 11.8				

Customer Id: AMEWAD Sample No.: JR0141361 Lab Number: 05981073 Test Package: MOBCE



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 <u>don.b505@comcast.net</u>

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

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.				
Resample			?	We recommend an early resample to monitor this condition.				
Check Fuel/injector System			?	We advise that you check the fuel injection system.				

HISTORICAL DIAGNOSIS

VISCOSITY

18 Jan 2020 Diag: Jonathan Hester

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.





OIL ANALYSIS REPORT

Sample Number

hrs

hrs

Sample Date

Machine Age

Oil Changed

Sample Status

CONTAMINATION

Oil Age

Glycol

[W7649] 687635 Component

Diesel Engine

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

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. (Customer Sample Comment: W7649)

Wear

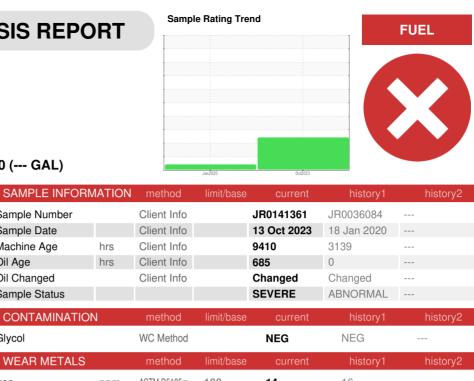
All component wear rates are normal.

Contamination

There is a high amount of fuel present in the oil.

Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	14	16	
Chromium	ppm	ASTM D5185m	>20	1	<1	
Nickel	ppm	ASTM D5185m	>4	<1	<1	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	4	7	
Lead	ppm	ASTM D5185m	>40	6	16	
Copper	ppm	ASTM D5185m	>330	6	17	
Tin	ppm	ASTM D5185m	>15	1	3	
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
		and the second	11 11 11	t	Information of	Information O

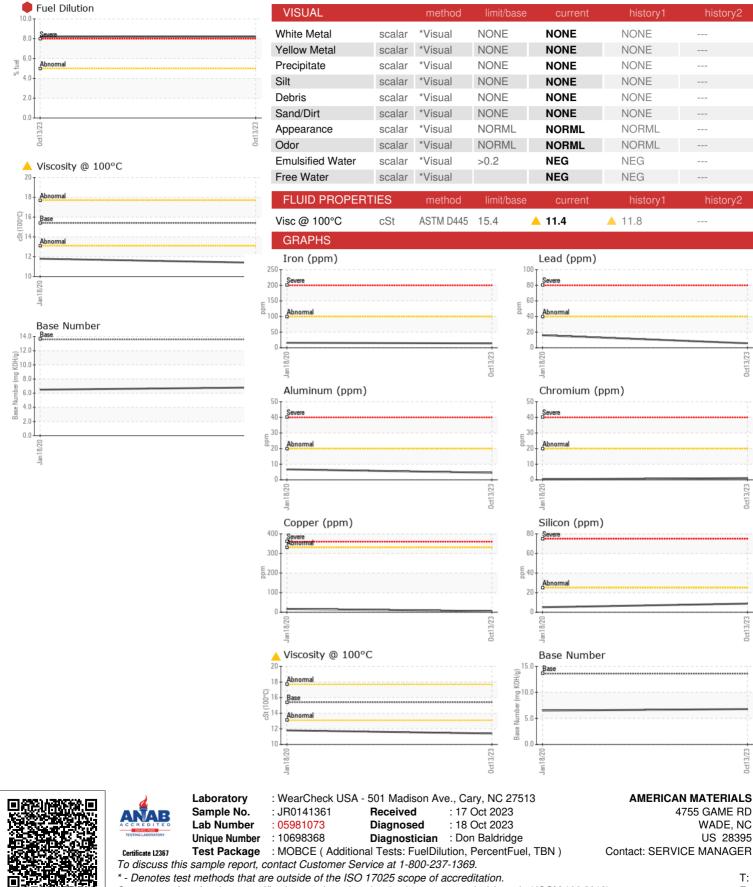
ADDITIVES		method	iimii/base	current	nistory i	riistory2
Boron	ppm	ASTM D5185m		91	72	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		229	241	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m		677	756	
Calcium	ppm	ASTM D5185m		1153	1252	
Phosphorus	ppm	ASTM D5185m		679	692	
Zinc	ppm	ASTM D5185m		816	796	
Sulfur	ppm	ASTM D5185m		2599	3430	

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	9	5	
Sodium	ppm	ASTM D5185m		23	6	
Potassium	ppm	ASTM D5185m	>20	9	2	
Fuel	%	ASTM D3524	>5	8.2	<1.0	

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	8.6	9.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	25.2	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.7	21.5	
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	6.8	6.5	



OIL ANALYSIS REPORT



Page 4 of 4

WADE, NC

US 28395