

PROBLEM SUMMARY

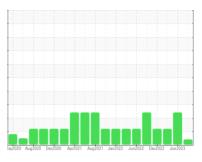
Sample Rating Trend

VISCOSITY

JOHN DEERE 844L 1DW844LXVLF705479 - FILL PLUG Component

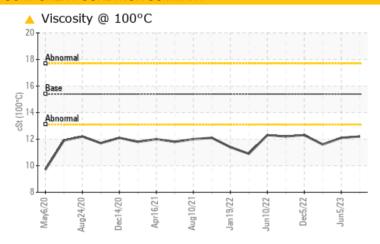
Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- 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.

PROBLEMATIC TEST RESULTS									
Sample Status		ABNORMAL	SEVERE	ABNORMAL					
Visc @ 100°C	cSt	ASTM D445	15.4	<u> </u>	<u>▲</u> 12.1	△ 11.6			

Customer Id: JAMASH Sample No.: JR0179312 Lab Number: 05966053 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 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

05 Jun 2023 Diag: Wes Davis





We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



27 Feb 2023 Diag: Jonathan Hester

FUEL



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. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.



05 Dec 2022 Diag: Wes Davis

FUEL



No corrective action is recommended at this time. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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

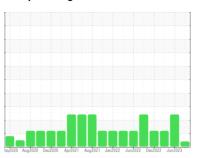
Sample Rating Trend

VISCOSITY

JOHN DEERE 844L 1DW844LXVLF705479 - FILL PLUG

Diesel Engine

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





DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

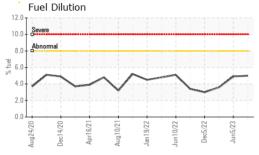
Fluid Condition

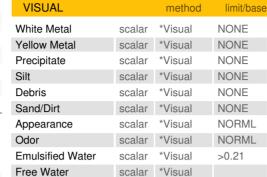
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

1m/2020 Aug/2020 Dec/2020 Apr/2021 Aug/2021 Jan/2022 Jun/2022 Dec/2022 Jun/2023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0179312	JR0164712	JR0148663
Sample Date		Client Info		27 Sep 2023	05 Jun 2023	27 Feb 2023
Machine Age	hrs	Client Info		8933	8437	7955
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	SEVERE	ABNORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>51	11	8	7
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	5	1	3
Lead	ppm	ASTM D5185m	>26	3	3	2
Copper	ppm	ASTM D5185m	>26	5	4	6
Tin	ppm	ASTM D5185m	>4	1	<1	1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		175	181	156
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		250	231	204
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		772	835	716
Calcium	ppm	ASTM D5185m		1315	1341	1330
Phosphorus	ppm	ASTM D5185m		848	827	783
Zinc	ppm	ASTM D5185m		1041	1034	947
Sulfur	ppm	ASTM D5185m		3207	3617	3266
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	7	7	6
Sodium	ppm	ASTM D5185m	>31	4	6	8
Potassium	ppm	ASTM D5185m	>20	2	1	<1
Fuel	%	ASTM D3524	>8.0	5.0	4.9	△ 3.6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.4	9.0	8.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	23.4	21.5
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
FLUID DEGRADA	ATION	method	IIIIII Dasc	Current	Thistory	motory
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	18.6	15.8



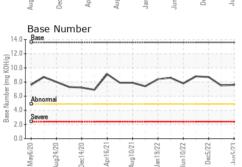
OIL ANALYSIS REPORT



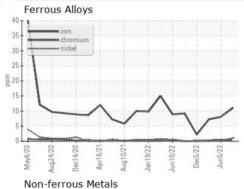


12.0 -	Fuel D	ilutio	n						
10.0	Severe								
8.0	Abnorma								
-0.0 fuel	·								
4.0		1		\checkmark	\sim	1			
2.0									
0.01	720	. V20	12/	1/21	722	722	722	/23	
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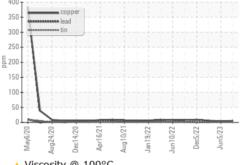


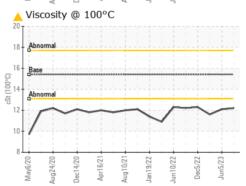


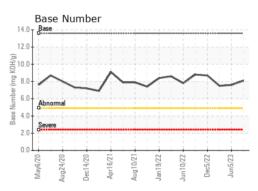
GRAPHS











history1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

current

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

history2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG



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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0179312 : 05966053

: 10672604

Received

: 02 Oct 2023 : 04 Oct 2023

Diagnosed Diagnostician : Jonathan Hester

Test Package: CONST (Additional Tests: PercentFuel, TBN)

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.

ASHLAND, VA US 23005 Contact: DAVID ZIEG

11047 LEADBETTER RD

dzieg@jamesriverequipment.com

Contact/Location: DAVID ZIEG - JAMASH

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JRE - ASHLAND

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