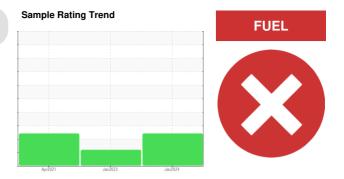


PROBLEM SUMMARY

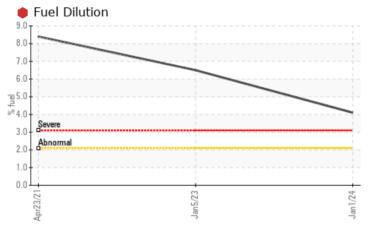
[W20726-WINDY HILL] JOHN DEERE 3520 1LV3520HJDH910183

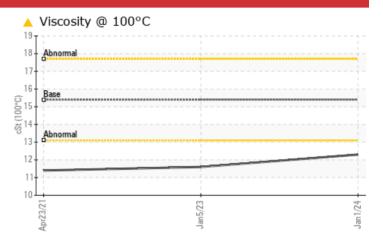
Component **Diesel Engine**

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









RECOMMENDATION

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.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	ABNORMAL	SEVERE		
Fuel	%	ASTM D3524	>2.1	4.1	△ 6.5	● 8.4		
Visc @ 100°C	cSt	ASTM D445	15.4	12.3	<u> </u>	<u></u> 11.4		

Customer Id: JAMBUR **Sample No.:** JR0196594 Lab Number: 06054556 Test Package: CONST

To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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 Fuel/injector System			?	We advise that you check the fuel injection system.			

HISTORICAL DIAGNOSIS

05 Jan 2023 Diag: Wes Davis

FUEL



The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Metal levels are typical for a new component breaking in. There is a moderate 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. The oil is no longer serviceable due to the presence of contaminants.



23 Apr 2021 Diag: Jonathan Hester

FUEL



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.All component wear rates are normal. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.





OIL ANALYSIS REPORT

[W20726-WINDY HILL] JOHN DEERE 3520 1LV3520HJDH910183

Diesel Engine

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





DIAGNOSIS

Recommendation

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.

Metal levels are typical for a new component breaking in.

Contamination

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

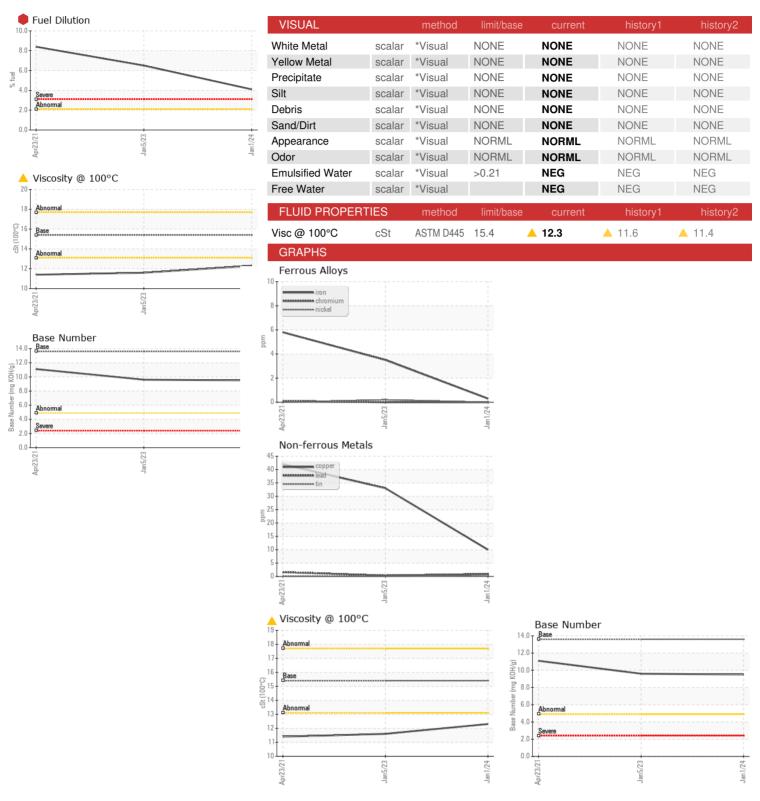
▲ Fluid Condition

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.

40 (GAL)		Ap	r2021	Jan2023 Jan2	024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0196594	JR0148859	JR0085296
Sample Date		Client Info		01 Jan 2024	05 Jan 2023	23 Apr 2021
Machine Age	hrs	Client Info		79	76	44
Oil Age	hrs	Client Info		3	0	44
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	ABNORMAL	SEVERE
CONTAMINATIO	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	<1	4	6
Chromium	ppm	ASTM D5185m	>11	0	0	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>31	4	<1	6
Lead	ppm	ASTM D5185m	>26	<1	<1	2
Copper	ppm	ASTM D5185m	>26	10	33	42
Tin	ppm	ASTM D5185m	>4	<1	0	0
Antimony	ppm	ASTM D5185m				2
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		260	227	235
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		241	220	198
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		856	691	670
Calcium	ppm	ASTM D5185m		1381	1248	1202
Phosphorus	ppm	ASTM D5185m		981	792	779
Zinc	ppm	ASTM D5185m		1146	925	832
Sulfur	ppm	ASTM D5185m		3272	2525	2358
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	8	9	14
Sodium	ppm	ASTM D5185m	>31	2	1	3
Potassium	ppm	ASTM D5185m	>20	<1	2	6
Fuel	%	ASTM D3524	>2.1	4.1	△ 6.5	● 8.4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.3	6.1	6.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	18.6	20.4
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	13.4	15
Base Number (BN)		ASTM D2896	13.6	9.5	9.6	11.1
					0	



OIL ANALYSIS REPORT







Certificate L2367

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

: JR0196594 : 06054556 : 10820505

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

Recieved : 08 Jan 2024 Diagnosed

: 12 Jan 2024 Diagnostician : Wes Davis

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

JRE - BURKEVILLE 510 WEST COLONIAL DR BURKEVILLE, VA

US 23922 Contact: BRANDON BOLLING

bbolling@jamesriverequipment.com

Contact/Location: BRANDON BOLLING - JAMBUR

T: (434)767-5578 F: (434)767-3774