

PROBLEM SUMMARY

Sample Rating Trend

WEAR

WEAR

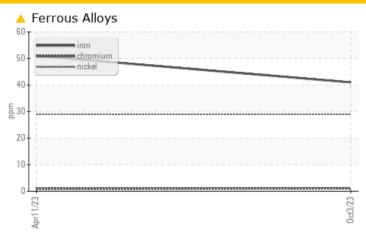
W46924]

JOHN DEERE 850L 1T0850LXKPF437810

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 ABNORMAL -- Nickel ppm ASTM D5185m >5 A 29 A 29 --

Customer Id: JAMASH
Sample No.: JR0179197
Lab Number: 05968680
Test Package: CONST

To manage this report scan the QR code

To discuss the diagnosis or test data:
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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

11 Apr 2023 Diag: Jonathan Hester

WEAR



Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. The nickel level is abnormal. All other metal levels are typical for a new component breaking in. Fuel content negligible. 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. Confirm oil type.





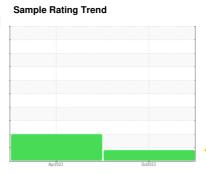
OIL ANALYSIS REPORT

[W46924]

JOHN DEERE 850L 1T0850LXKPF437810

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

The nickel level is abnormal. All other metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the

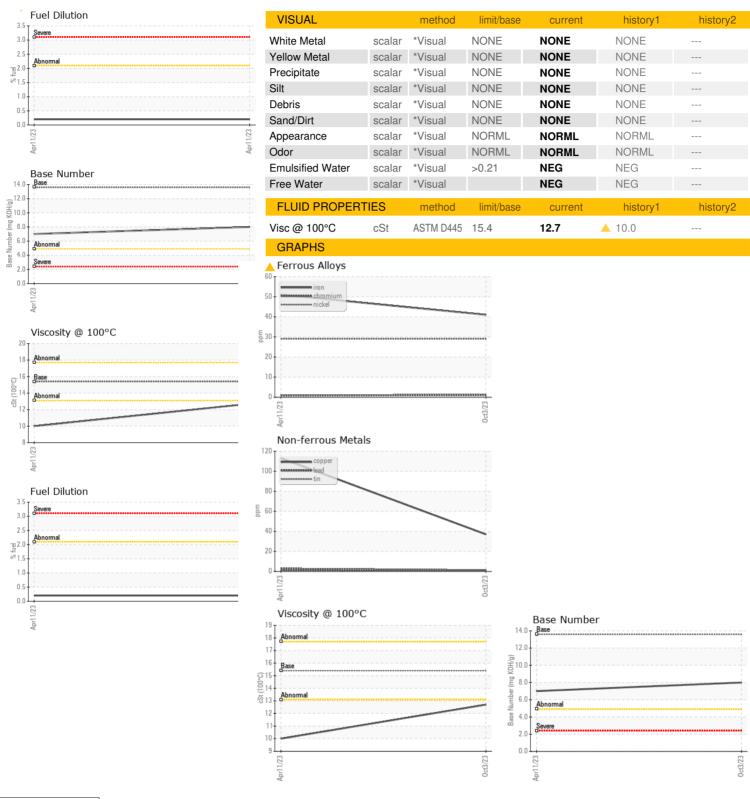
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

TO (GAL)			Apr2023	0ct2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0179197	JR0166200	
Sample Date		Client Info		03 Oct 2023	11 Apr 2023	
Machine Age	hrs	Client Info		946	458	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	41	51	
Chromium	ppm	ASTM D5185m	>11	1	<1	
Nickel	ppm	ASTM D5185m	>5	<u>^</u> 29	<u>^</u> 29	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>31	8	2	
Lead	ppm	ASTM D5185m	>26	1	2	
Copper	ppm	ASTM D5185m	>26	37	<u>▲</u> 113	
Tin	ppm	ASTM D5185m	>4	1	3	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		153	126	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		257	277	
Manganese	ppm	ASTM D5185m		1	2	
Magnesium	ppm	ASTM D5185m		920	806	
Calcium	ppm	ASTM D5185m		1496	1488	
Phosphorus	ppm	ASTM D5185m		946	790	
Zinc	ppm	ASTM D5185m		1170	950	
Sulfur	ppm	ASTM D5185m		3088	2431	
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	9	11	
Sodium	ppm	ASTM D5185m	>31	2	2	
Potassium	ppm	ASTM D5185m	>20	1	8	
Fuel	%	ASTM D3524	>2.1	<1.0	0.2	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.4	
Nitration	Abs/cm	*ASTM D7624	>20	8.9	9.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	23.1	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.5	18.2	
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.0	7.0	
(= • •)	Jy					



OIL ANALYSIS REPORT







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

: JR0179197 : 05968680 : 10675231

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 04 Oct 2023 Diagnosed : 06 Oct 2023 Diagnostician : Jonathan Hester Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

JRE - ASHLAND 11047 LEADBETTER RD ASHLAND, VA US 23005 Contact: DAVID ZIEG

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

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* - 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)

F: (804)798-0292 Contact/Location: DAVID ZIEG - JAMASH