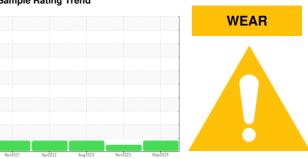


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

JOHN DEERE 843L 1DW843LBKMF710421

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

Cylinder, crank, or cam shaft wear is indicated.

Contamination

There is no indication of any contamination in the

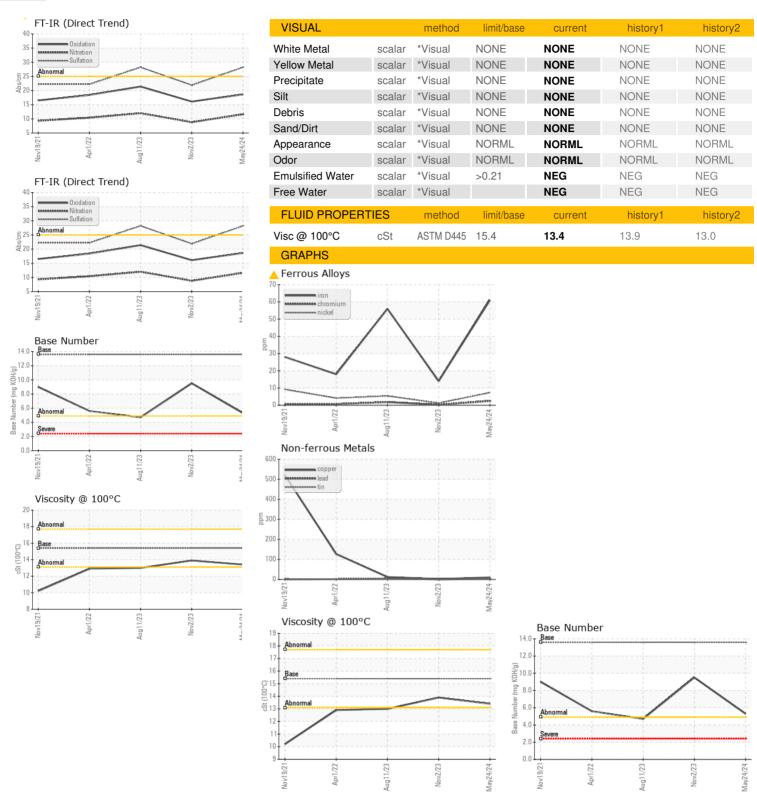
Fluid Condition

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

40 (GAL)		Nov2021	Apr2022	Aug2023 Nov2023	May2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0211466	JR0179148	JR0164947
Sample Date		Client Info		24 May 2024	02 Nov 2023	11 Aug 2023
Machine Age	hrs	Client Info		3095	3451	3194
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
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	<u>▲</u> 61	14	▲ 56
Chromium	ppm	ASTM D5185m	>11	2	<1	2
Nickel	ppm	ASTM D5185m	>5	7	1	5
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>31	3	4	5
Lead	ppm	ASTM D5185m	>26	2	0	4
Copper	ppm	ASTM D5185m		10	2	12
Tin	ppm	ASTM D5185m	>4	2	<1	1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	239	10
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		15	272	95
Manganese	ppm	ASTM D5185m		1	<1	2
Magnesium	ppm	ASTM D5185m		59	888	445
Calcium	ppm	ASTM D5185m		2455	1552	1672
Phosphorus	ppm	ASTM D5185m		919	978	932
Zinc	ppm	ASTM D5185m		1044	1228	1122
Sulfur	ppm	ASTM D5185m		3562	3455	3008
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	9	9	13
Sodium	ppm	ASTM D5185m		6	2	2
Potassium	ppm	ASTM D5185m	>20	7	3	12
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.8	0.5	1.8
Nitration	Abs/cm	*ASTM D7624	>20	11.6	8.8	12.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	28.2	21.9	28.2
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.6	16.1	21.4
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	5.3	9.5	4.7



OIL ANALYSIS REPORT







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0211466 Lab Number : 06194760

Unique Number : 11056883

Tested

Received : 29 May 2024 : 30 May 2024 Diagnosed

: 31 May 2024 - Sean Felton

Contact: DAVID ZIEG

dzieg@jamesriverequipment.com T: (804)798-6001

Test Package : CONST (Additional Tests: TBN) Certificate 12367 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)

Report Id: JAMASH [WUSCAR] 06194760 (Generated: 06/03/2024 06:59:47) Rev: 1

Contact/Location: DAVID ZIEG - JAMASH

JRE - ASHLAND

F: (804)798-0292

ASHLAND, VA

US 23005

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