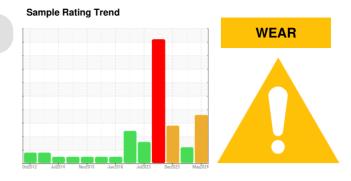


## **OIL ANALYSIS REPORT**

SAMPLE INFORMATION method



historv1

historv2

current

#### Machine Id

# JOHN DEERE 844K 1DW844KXHCD643325

**Diesel Engine** 

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (10 GAL)

#### DIAGNOSIS

#### A Recommendation

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### 🔺 Wear

Cylinder, crank, or cam shaft wear is indicated. Bearing and/or bushing wear is indicated.

#### Contamination

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

#### Fluid Condition

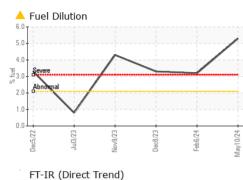
Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

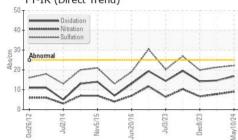
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0210001	JR0195611	JR0184599
Sample Date		Client Info		10 May 2024	06 Feb 2024	08 Dec 2023
Machine Age	hrs	Client Info		19960	19472	19280
Oil Age	hrs	Client Info		19472	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	MARGINAL	ABNORMAL
CONTAMINATION	N	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	<b>A</b> 87	31	16
Chromium	ppm	ASTM D5185m	>11	4	2	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	4	3	4
Lead	ppm	ASTM D5185m	>26	13	7	8
Copper	ppm	ASTM D5185m	>26	<u> </u>	38	<b>4</b> 1
Tin	ppm	ASTM D5185m	>4	<b>4</b> 5	6	6
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		180	275	261
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		231	254	234
Manganese	ppm	ASTM D5185m		2	2	9
Magnesium	ppm	ASTM D5185m		852	812	773
Calcium	ppm	ASTM D5185m		1363	1340	1280
Phosphorus	ppm	ASTM D5185m		893	869	867
Zinc	ppm	ASTM D5185m		1078	1067	1027
Sulfur	ppm	ASTM D5185m		3093	2944	3019
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	14	16	17
Sodium	ppm	ASTM D5185m	>31	8	2	17
Potassium	ppm		>20	0	3	4
Fuel	%	ASTM D3524	>2.1	<u> </u>	▲ 3.2	▲ 3.3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.1	0.6	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.0	7.8	6.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	21.3	19.9
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	14.7	14.2
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.7	8.6	9.6
	0 0					

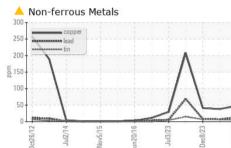
limit/base

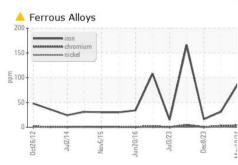


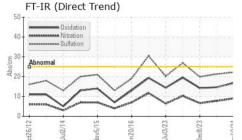
## **OIL ANALYSIS REPORT**

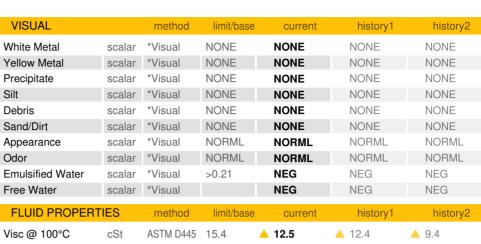




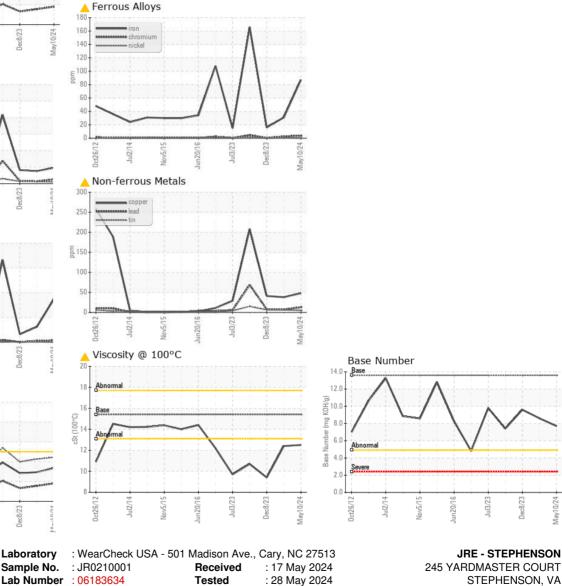








GRAPHS



: 28 May 2024 - Jonathan Hester



 Certificate 12307
 Test Package
 : CONST (Additional Tests: FUELDILUTION, PercentFuel, TBN )
 Contact

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

 \* - 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)

Diagnosed

Unique Number : 11034960

STEPHENSON, VA r US 22656-1761 ) Contact: PHIL DAUGHERTY pdaugherty@jamesriverequipment.com T: x: CGM 106:2012) F: (540)693-2588

Report Id: JAMWIN [WUSCAR] 06183634 (Generated: 06/03/2024 07:25:13) Rev: 1

Submitted By: COTY MAGAHA

Page 2 of 2