



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
1DW410PAEPFB06828

Component
Diesel Engine

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

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0203562	JR0188911	---
Sample Date		Client Info		08 Feb 2024	12 Oct 2023	---
Machine Age	hrs	Client Info		1037	541	---
Oil Age	hrs	Client Info		496	541	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	19	30	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>4	0	<1	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	3	3	---
Lead	ppm	ASTM D5185m	>40	8	20	---
Copper	ppm	ASTM D5185m	>330	93	▲ 543	---
Tin	ppm	ASTM D5185m	>15	4	10	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

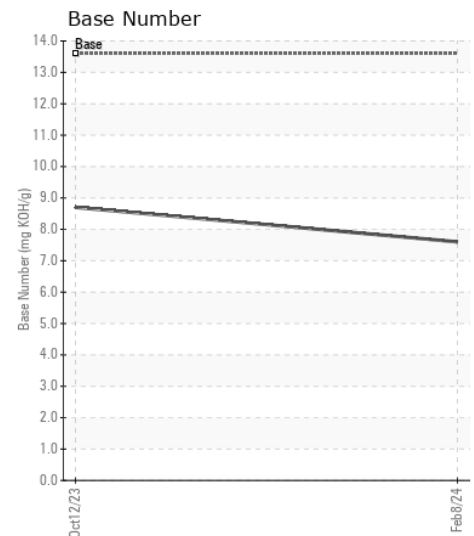
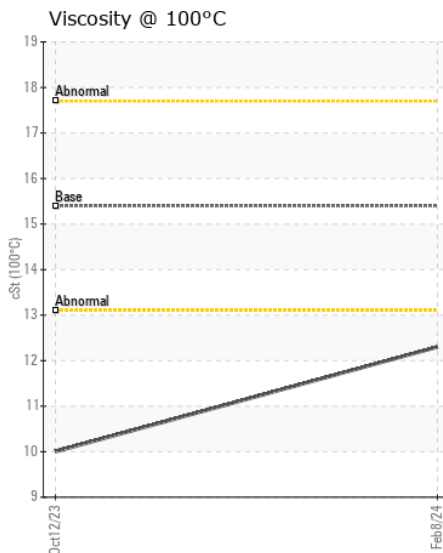
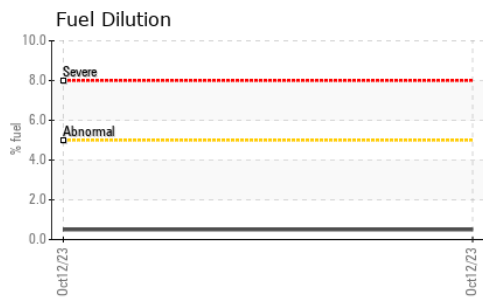
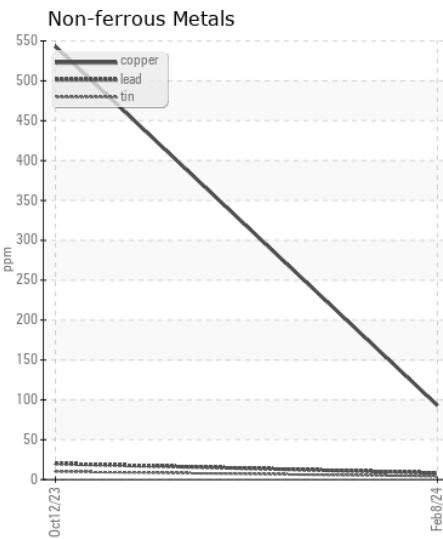
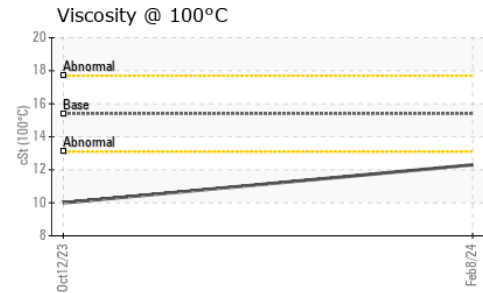
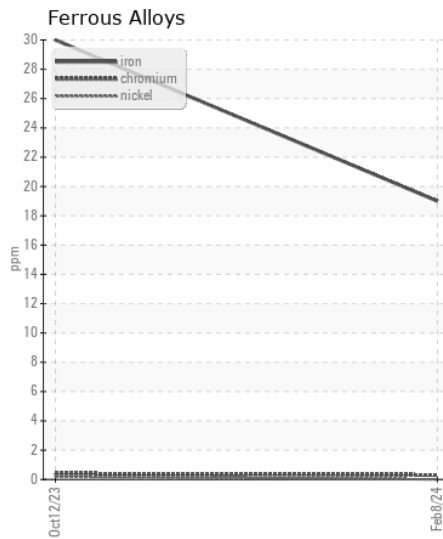
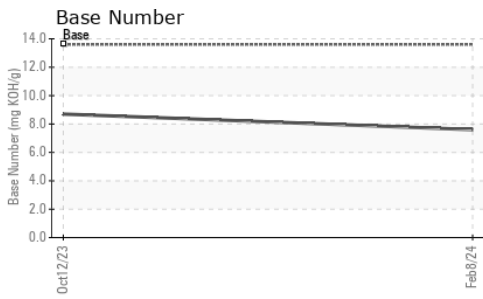
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	8	13	---
Potassium	ppm	ASTM D5185m	>20	2	4	---
Fuel	%	ASTM D3524	>5	<1.0	0.5	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.4	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	8.5	8.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.4	22.6	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

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.

Sodium	ppm	ASTM D5185m		1	12	---
Boron	ppm	ASTM D5185m		180	173	---
Barium	ppm	ASTM D5185m		13	0	---
Molybdenum	ppm	ASTM D5185m		255	245	---
Manganese	ppm	ASTM D5185m		1	9	---
Magnesium	ppm	ASTM D5185m		780	768	---
Calcium	ppm	ASTM D5185m		1335	1368	---
Phosphorus	ppm	ASTM D5185m		920	872	---
Zinc	ppm	ASTM D5185m		1017	1060	---
Sulfur	ppm	ASTM D5185m		3283	2879	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	17.1	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.6	8.7	---
Visc @ 100°C	cSt	ASTM D445	15.4	12.3	10.0	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0203562 **Received** : 14 Feb 2024
Lab Number : 06088623 **Tested** : 15 Feb 2024
Unique Number : 10876068 **Diagnosed** : 15 Feb 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: FuelDilution, TBN)

JRE - CHARLOTTE
 9550 STATESVILLE ROAD
 CHARLOTTE, NC
 US 28269

Contact: CHARLOTTE SHOP
 myoung@jamesriverequipment.com

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)

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