



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 3038E 58001247 (S/N 1LV3038EVL131850)

Component
Diesel Engine

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

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0183572	JR0140309	---
Sample Date		Client Info		30 Jan 2024	05 Feb 2023	---
Machine Age	hrs	Client Info		135	0	---
Oil Age	hrs	Client Info		45	0	---
Filter Age	hrs	Client Info		45	0	---
Oil Changed		Client Info		Changed	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>51	4	5	---
Chromium	ppm	ASTM D5185m	>11	0	<1	---
Nickel	ppm	ASTM D5185m	>5	<1	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>3	<1	<1	---
Aluminum	ppm	ASTM D5185m	>31	5	2	---
Lead	ppm	ASTM D5185m	>26	1	<1	---
Copper	ppm	ASTM D5185m	>26	3	5	---
Tin	ppm	ASTM D5185m	>4	<1	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

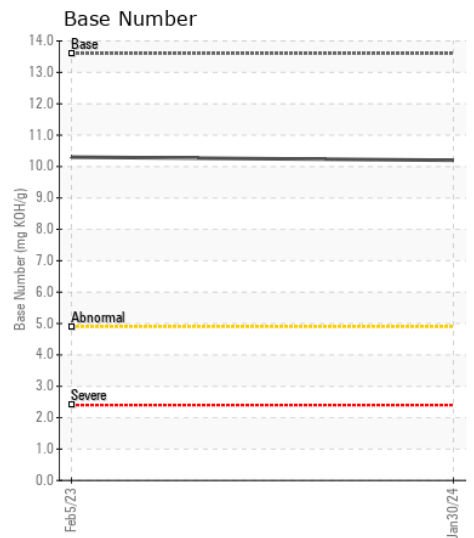
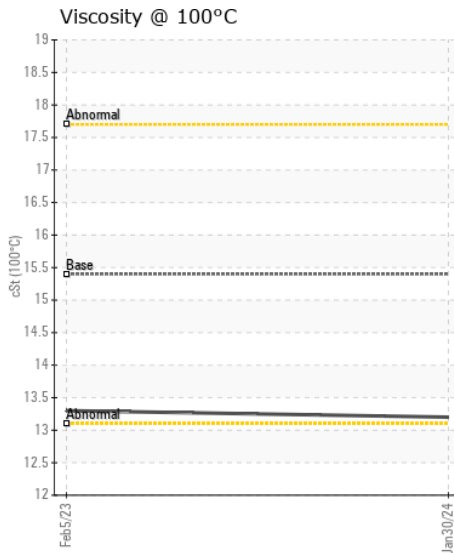
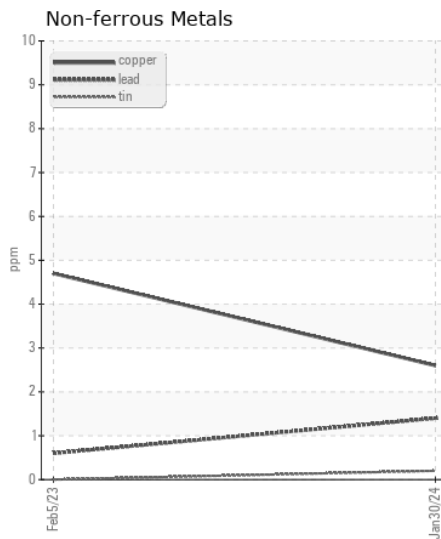
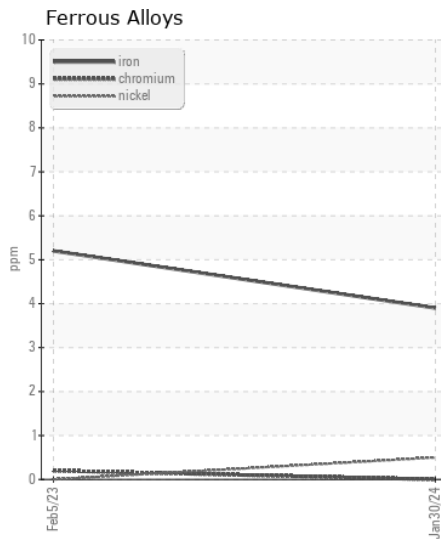
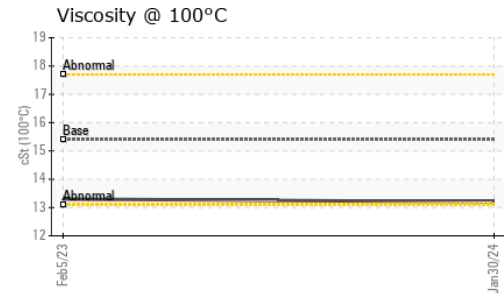
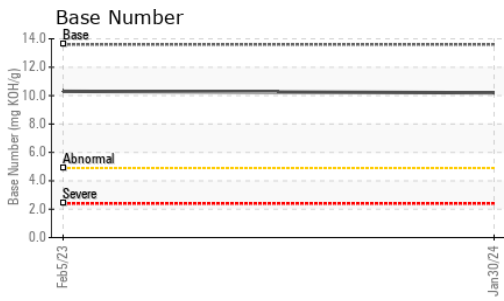
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	10	14	---
Potassium	ppm	ASTM D5185m	>20	3	<1	---
Fuel		WC Method	>2.1	<1.0	<1.0	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.1	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	6.9	6.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	19.5	---
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	>0.21	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	>31	2	3	---
Boron	ppm	ASTM D5185m		262	246	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		234	212	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		797	662	---
Calcium	ppm	ASTM D5185m		1318	1308	---
Phosphorus	ppm	ASTM D5185m		919	759	---
Zinc	ppm	ASTM D5185m		1057	909	---
Sulfur	ppm	ASTM D5185m		3045	3220	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.9	14.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	10.2	10.3	---
Visc @ 100°C	cSt	ASTM D445	15.4	13.2	13.3	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0183572 **Received** : 31 Jan 2024
Lab Number : 06075610 **Diagnosed** : 01 Feb 2024
Unique Number : 10857701 **Diagnostician** : Wes Davis
Test Package : CONST (Additional Tests: 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 - HARRISONBURG
 1332 GARBERS CHURCH RD
 HARRISONBURG, VA
 US 22801

Contact: ETHAN SHEETS
 ETHAN.SHEETS@JAMESRIVEREQUIPMENT.COM

T:
F: