



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[JAMIE B]

Machine Id

JOHN DEERE 3039R 1LV3039RJLL404946

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		JR0169331	JR0097392	---
Sample Date		Client Info		13 Jan 2024	11 Nov 2021	---
Machine Age	hrs	Client Info		256	95	---
Oil Age	hrs	Client Info		161	46	---
Filter Age	hrs	Client Info		161	46	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	8	6	---
Chromium	ppm	ASTM D5185m	>11	0	<1	---
Nickel	ppm	ASTM D5185m	>5	0	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>31	4	2	---
Lead	ppm	ASTM D5185m	>26	0	<1	---
Copper	ppm	ASTM D5185m	>26	6	8	---
Tin	ppm	ASTM D5185m	>4	0	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

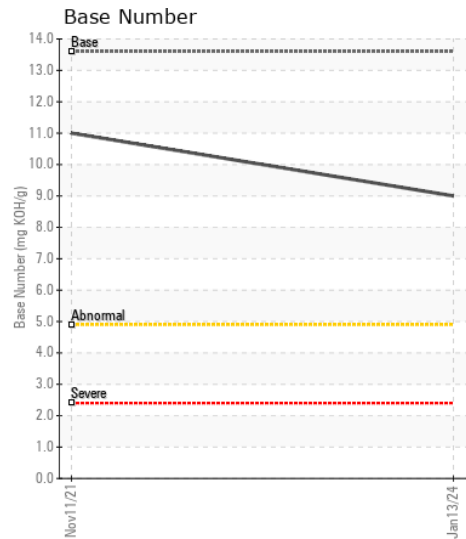
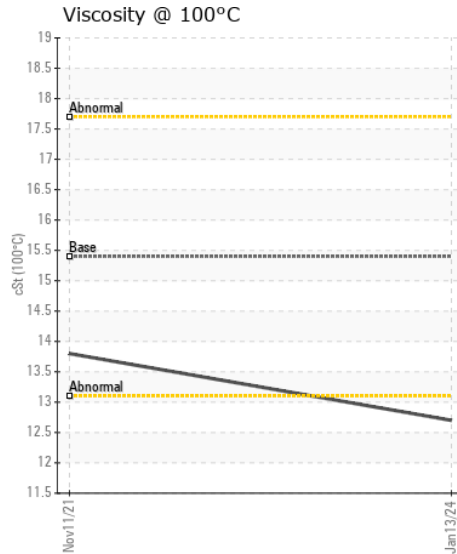
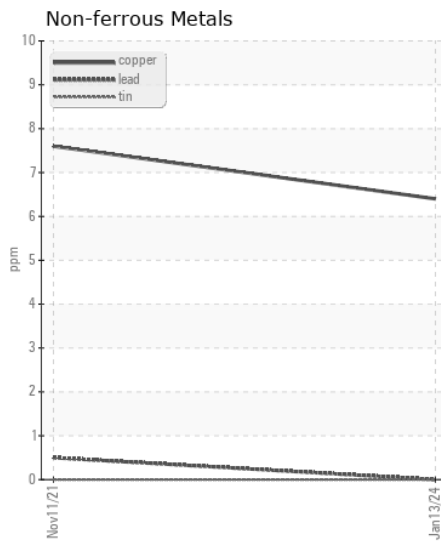
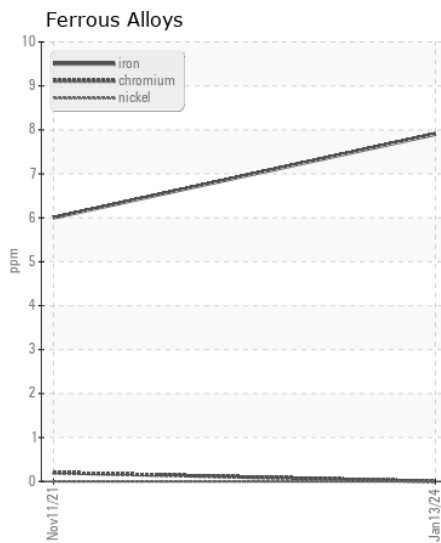
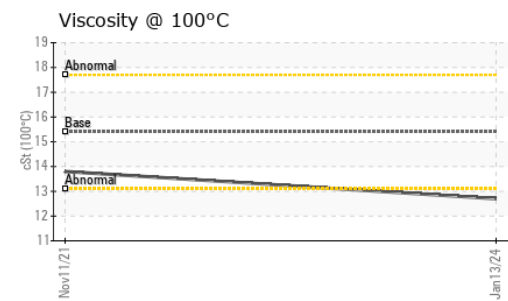
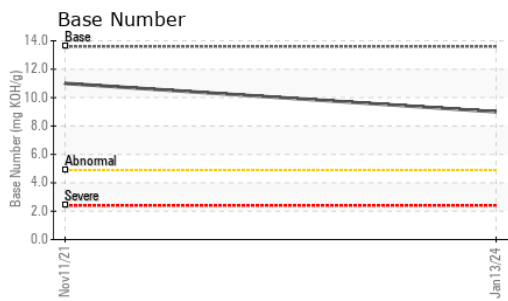
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	11	16	---
Potassium	ppm	ASTM D5185m	>20	<1	2	---
Fuel	%	ASTM D3524	>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	8.1	6.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	20.4	---
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	4	---
Boron	ppm	ASTM D5185m		227	266	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		248	245	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		842	784	---
Calcium	ppm	ASTM D5185m		1484	1369	---
Phosphorus	ppm	ASTM D5185m		897	862	---
Zinc	ppm	ASTM D5185m		1053	1008	---
Sulfur	ppm	ASTM D5185m		2978	2952	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	15.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.0	11	---
Visc @ 100°C	cSt	ASTM D445	15.4	12.7	13.8	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0169331 **Received** : 12 Jan 2024
Lab Number : 06060038 **Diagnosed** : 16 Jan 2024
Unique Number : 10831420 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

JRE - EDINBURG
 601 NORTH MAIN ST
 WOODSTOCK, VA
 US 22664

Contact: MIKE SECHLER
 MSECHLER@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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F: