



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 3032E 1LV3032E1MN141473

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		JR0204222	JR0150786	---
Sample Date		Client Info		14 Mar 2024	28 Mar 2023	---
Machine Age	hrs	Client Info		76	49	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				NORMAL	ATTENTION	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	5	9	---
Chromium	ppm	ASTM D5185m	>11	<1	0	---
Nickel	ppm	ASTM D5185m	>5	0	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>31	4	2	---
Lead	ppm	ASTM D5185m	>26	<1	<1	---
Copper	ppm	ASTM D5185m	>26	8	22	---
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

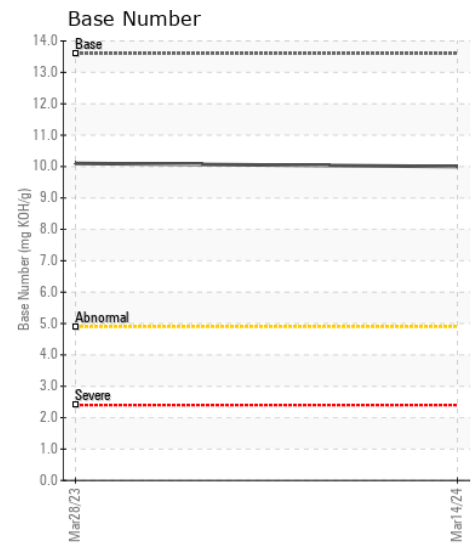
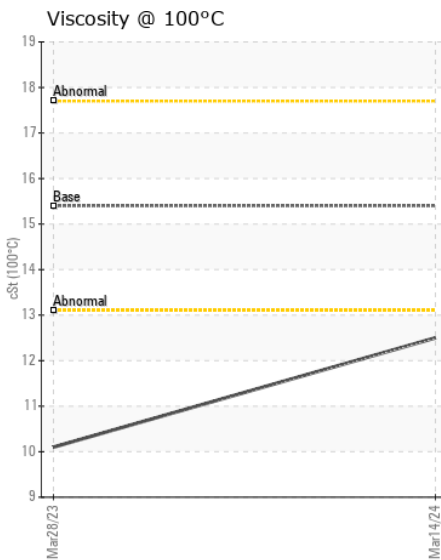
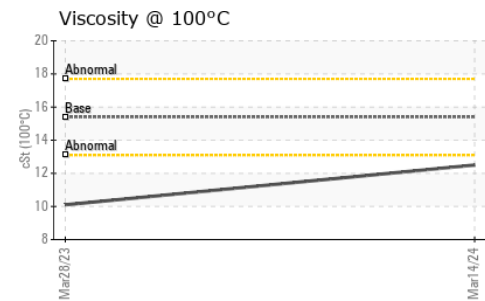
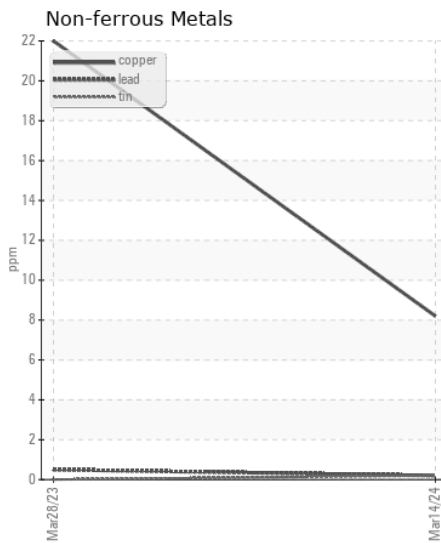
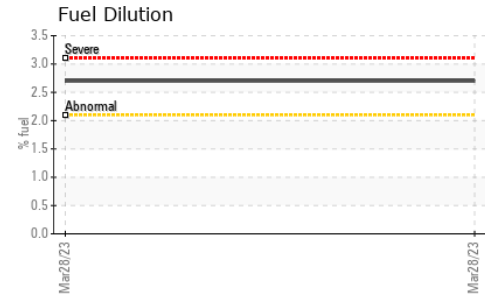
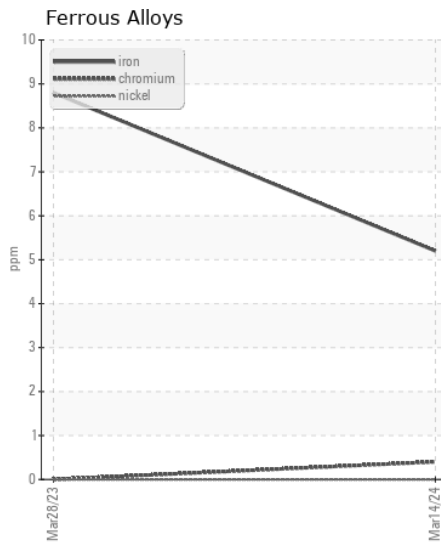
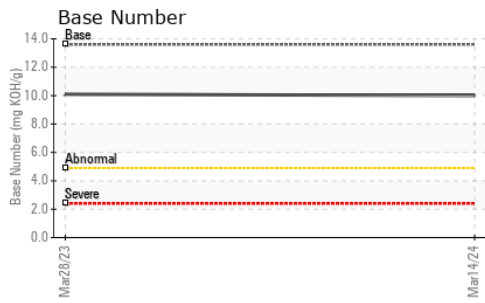
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	15	60	---
Potassium	ppm	ASTM D5185m	>20	3	0	---
Fuel	%	ASTM D3524	>2.1	<1.0	▲ 2.7	---
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	6.2	6.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	19.0	---
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	<1	13	---
Boron	ppm	ASTM D5185m		272	233	---
Barium	ppm	ASTM D5185m		3	5	---
Molybdenum	ppm	ASTM D5185m		251	220	---
Manganese	ppm	ASTM D5185m		<1	1	---
Magnesium	ppm	ASTM D5185m		760	620	---
Calcium	ppm	ASTM D5185m		1367	1724	---
Phosphorus	ppm	ASTM D5185m		861	886	---
Zinc	ppm	ASTM D5185m		1016	1034	---
Sulfur	ppm	ASTM D5185m		3195	3992	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	14.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	10.0	10.1	---
Visc @ 100°C	cSt	ASTM D445	15.4	12.5	● 10.1	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0204222 **Received** : 21 Mar 2024
Lab Number : 06124755 **Tested** : 22 Mar 2024
Unique Number : 10938906 **Diagnosed** : 24 Mar 2024 - Don Baldrige
Test Package : CONST (Additional Tests: FuelDilution, 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)

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