



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

**[W20961-DILLULO]**

Machine Id

**JOHN DEERE 5083E 1LV5083EJBY340579**

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		<b>JR0204482</b>	JR0164002	JR0117644
Sample Date		Client Info		<b>02 Jan 2024</b>	13 Mar 2023	28 Jan 2022
Machine Age	hrs	Client Info		<b>1913</b>	1776	1598
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>22</b>	34	▲ 82
Chromium	ppm	ASTM D5185m	>11	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>4</b>	4	6
Lead	ppm	ASTM D5185m	>26	<b>4</b>	16	▲ 98
Copper	ppm	ASTM D5185m	>26	<b>1</b>	2	5
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

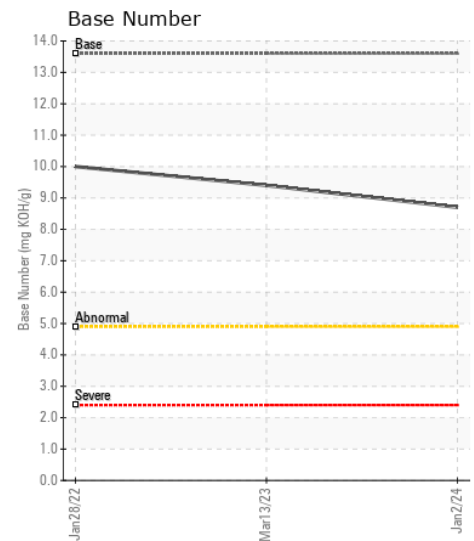
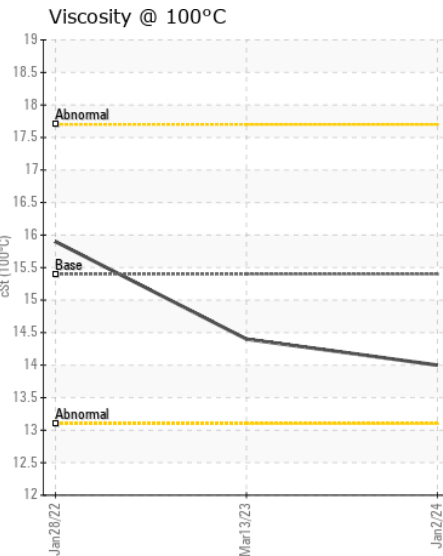
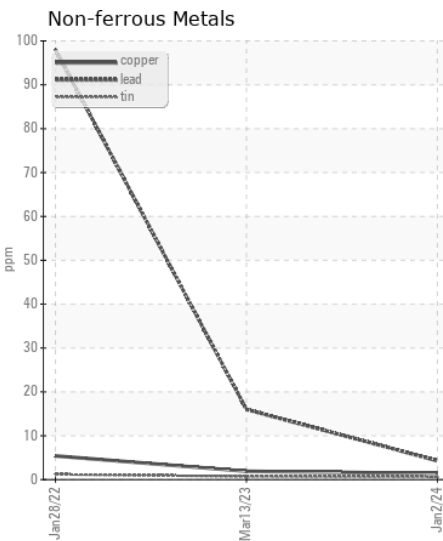
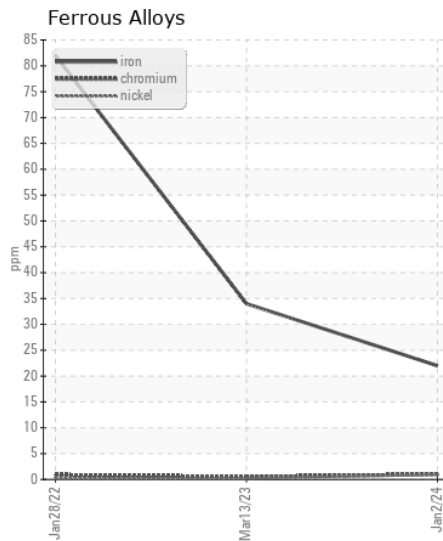
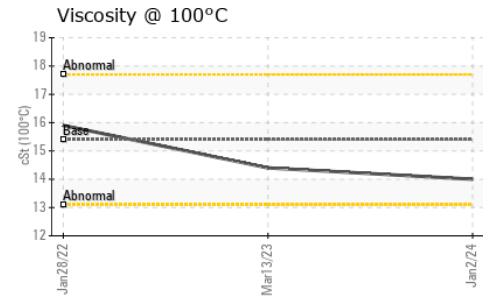
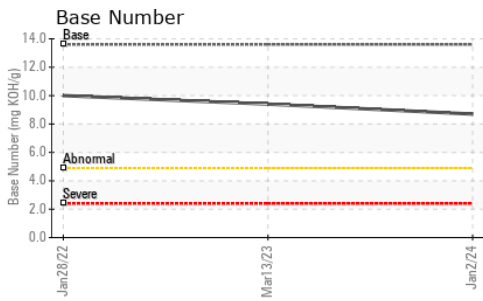
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>11</b>	9	13
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	1
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.21	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.3	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.4</b>	10.1	12.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.3</b>	22.9	29.4
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.21	<b>NEG</b>	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	<b>0</b>	0	0
Boron	ppm	ASTM D5185m		<b>288</b>	186	139
Barium	ppm	ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>284</b>	242	284
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	2
Magnesium	ppm	ASTM D5185m		<b>905</b>	765	1024
Calcium	ppm	ASTM D5185m		<b>1521</b>	1670	1805
Phosphorus	ppm	ASTM D5185m		<b>925</b>	902	1005
Zinc	ppm	ASTM D5185m		<b>1180</b>	1116	1173
Sulfur	ppm	ASTM D5185m		<b>3104</b>	3666	2828
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.6</b>	19.2	27.1
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>8.7</b>	9.4	10.0
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.0</b>	14.4	15.9



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : JR0204482

**Lab Number** : 06085342

**Unique Number** : 10872787

**Test Package** : CONST ( Additional Tests: TBN )

**Received** : 09 Feb 2024

**Tested** : 12 Feb 2024

**Diagnosed** : 12 Feb 2024 - Wes Davis

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 - BURKEVILLE**

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