



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

Machine Id  
**JOHN DEERE 843L-II 1DW843LBKPF717020**

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>JR0199969</b>	JR0180553	JR0165348
Sample Date		Client Info		<b>15 Mar 2024</b>	13 Oct 2023	16 Jun 2023
Machine Age	hrs	Client Info		<b>1457</b>	998	497
Oil Age	hrs	Client Info		<b>0</b>	0	497
Filter Age	hrs	Client Info		<b>0</b>	0	497
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>18</b>	20	43
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	1	1
Nickel	ppm	ASTM D5185m	>5	<b>6</b>	4	7
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>4</b>	4	5
Lead	ppm	ASTM D5185m	>26	<b>0</b>	<1	1
Copper	ppm	ASTM D5185m	>26	<b>3</b>	8	46
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	3
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

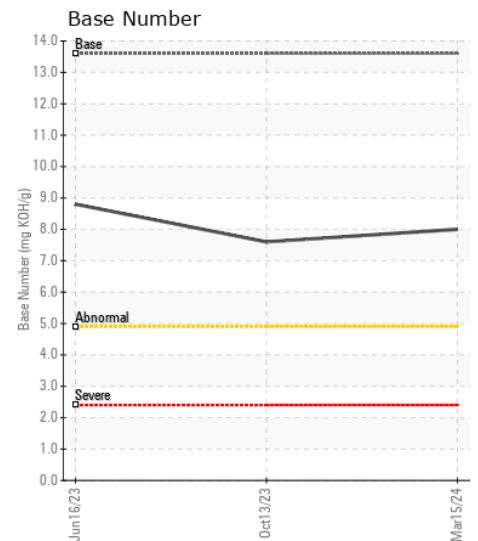
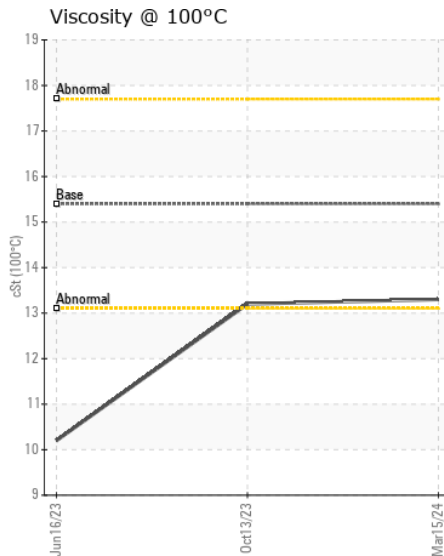
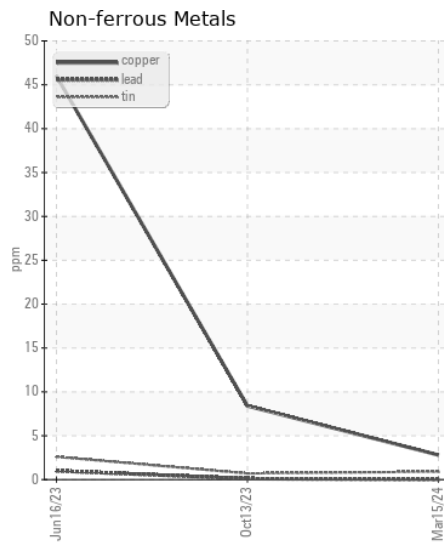
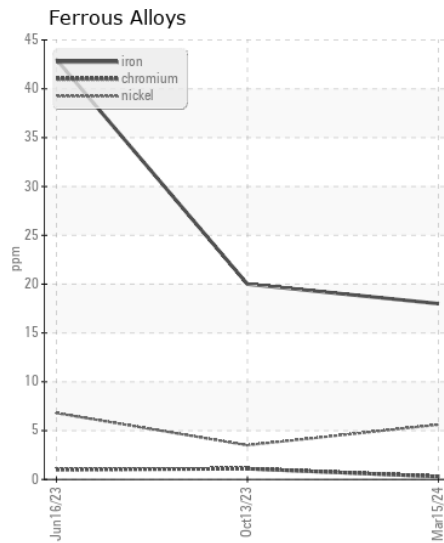
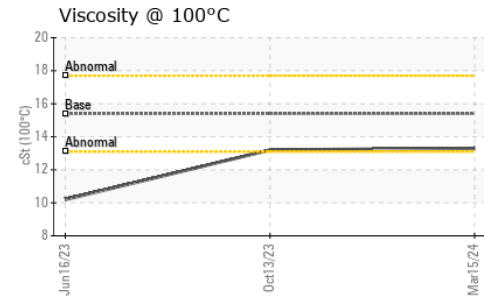
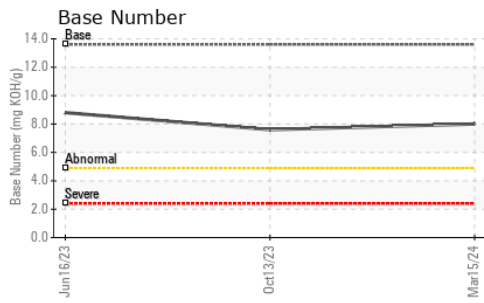
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>9</b>	9	13
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	14	8
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	0.3
Water		WC Method	>0.21	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.7</b>	0.7	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.7</b>	9.6	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.4</b>	23.5	24.5
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>4</b>	0	9
Boron	ppm	ASTM D5185m		<b>156</b>	103	129
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>261</b>	258	263
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	8
Magnesium	ppm	ASTM D5185m		<b>851</b>	758	868
Calcium	ppm	ASTM D5185m		<b>1461</b>	1334	1569
Phosphorus	ppm	ASTM D5185m		<b>934</b>	823	868
Zinc	ppm	ASTM D5185m		<b>1122</b>	1010	1091
Sulfur	ppm	ASTM D5185m		<b>3366</b>	2852	3264
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.2</b>	17.7	19.9
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>8.0</b>	7.6	8.8
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.3</b>	13.2	10.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0199969 **Received** : 21 Mar 2024  
**Lab Number** : 06125538 **Tested** : 22 Mar 2024  
**Unique Number** : 10939689 **Diagnosed** : 22 Mar 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: TBN )

**JRE - ASHLAND**  
 11047 LEADBETTER RD  
 ASHLAND, VA  
 US 23005

Contact: DAVID ZIEG  
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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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