



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

Machine Id  
**JOHN DEERE 245G 1FF245GXPNF802667**  
 Component  
**Diesel Engine**  
 Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0207771</b>	JR0191228	JR0168328
Sample Date		Client Info		<b>17 May 2024</b>	13 Nov 2023	15 May 2023
Machine Age	hrs	Client Info		<b>2209</b>	1665	1030
Oil Age	hrs	Client Info		<b>544</b>	635	537
Filter Age	hrs	Client Info		<b>544</b>	635	537
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>6</b>	4	9
Chromium	ppm	ASTM D5185m	>11	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>31	<b>7</b>	6	7
Lead	ppm	ASTM D5185m	>26	<b>1</b>	0	0
Copper	ppm	ASTM D5185m	>26	<b>&lt;1</b>	2	3
Tin	ppm	ASTM D5185m	>4	<b>2</b>	1	3
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

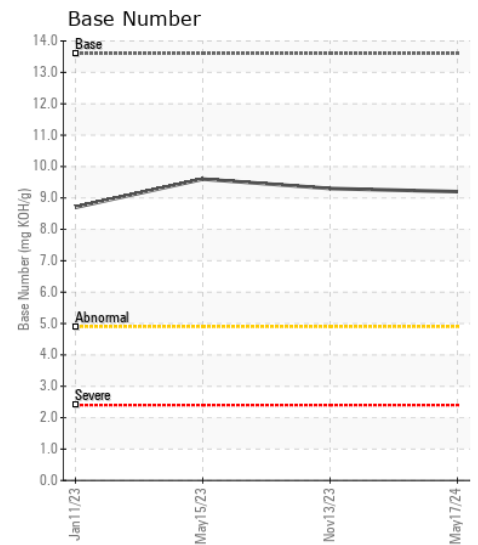
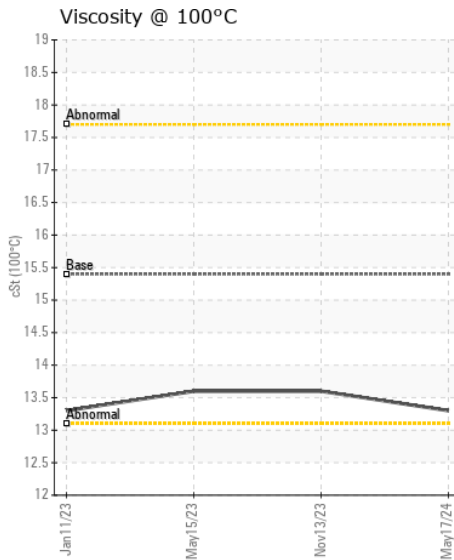
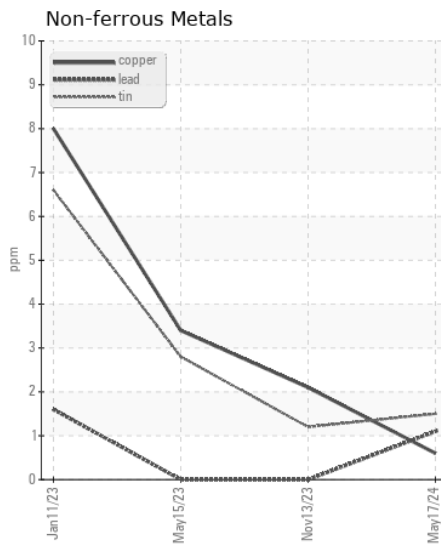
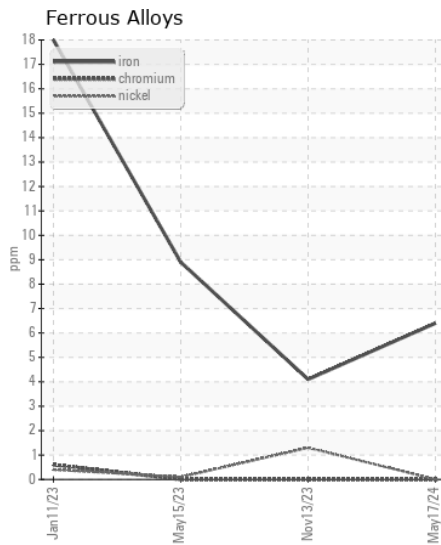
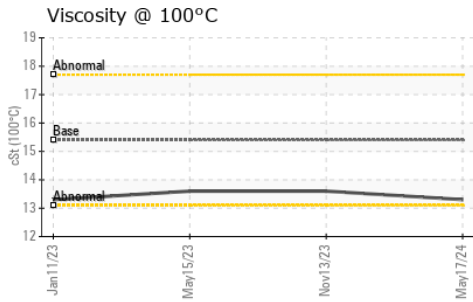
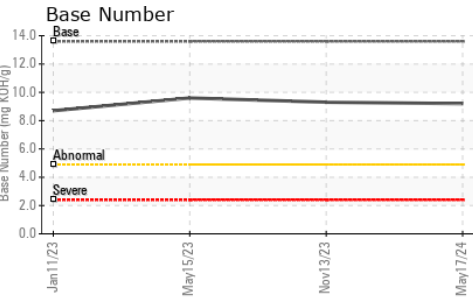
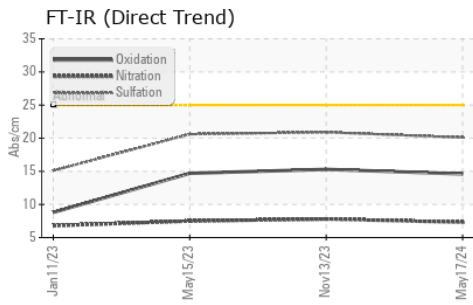
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>9</b>	8	11
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	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>0.1</b>	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.3</b>	7.8	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.1</b>	20.9	20.6
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>&lt;1</b>	2	2
Boron	ppm	ASTM D5185m		<b>292</b>	239	226
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>252</b>	236	227
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185m		<b>848</b>	790	729
Calcium	ppm	ASTM D5185m		<b>1433</b>	1357	1618
Phosphorus	ppm	ASTM D5185m		<b>936</b>	897	886
Zinc	ppm	ASTM D5185m		<b>1094</b>	1087	1090
Sulfur	ppm	ASTM D5185m		<b>3462</b>	3057	3351
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.6</b>	15.3	14.7
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>9.2</b>	9.3	9.6
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.3</b>	13.6	13.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0207771 **Received** : 21 May 2024  
**Lab Number** : 06187047 **Tested** : 23 May 2024  
**Unique Number** : 11043799 **Diagnosed** : 23 May 2024 - 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)

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