



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

Machine Id  
**JOHN DEERE 200G 1FF200GXANF085263**  
 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>JR0226636</b>	JR0196001	JR0174700
Sample Date		Client Info		<b>15 Jul 2024</b>	14 Dec 2023	02 Jun 2023
Machine Age	hrs	Client Info		<b>2528</b>	1975	1490
Oil Age	hrs	Client Info		<b>553</b>	485	544
Filter Age	hrs	Client Info		<b>0</b>	485	544
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	MARGINAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>21</b>	19	26
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	1	0
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>	5	4
Lead	ppm	ASTM D5185m	>26	<b>18</b>	▲ 29	▲ 32
Copper	ppm	ASTM D5185m	>26	<b>4</b>	6	6
Tin	ppm	ASTM D5185m	>4	<b>0</b>	<1	<1
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

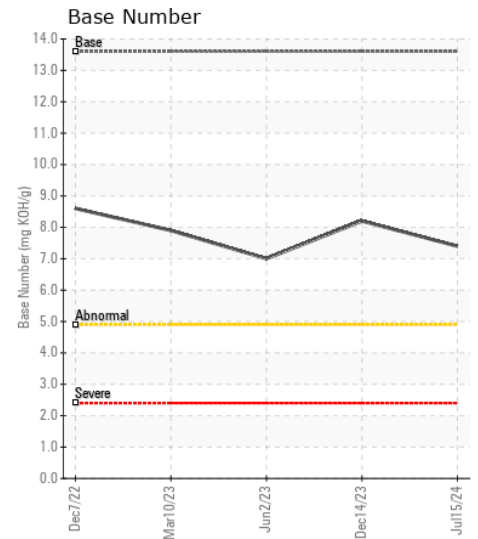
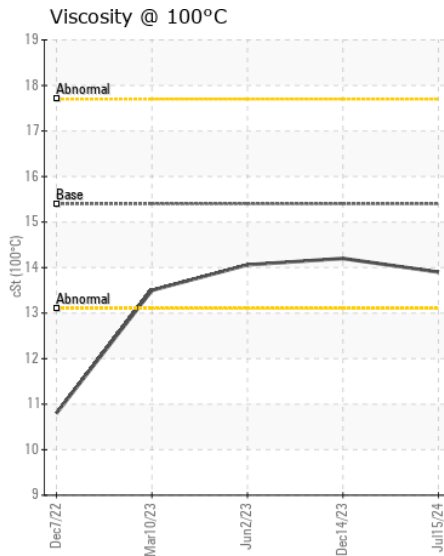
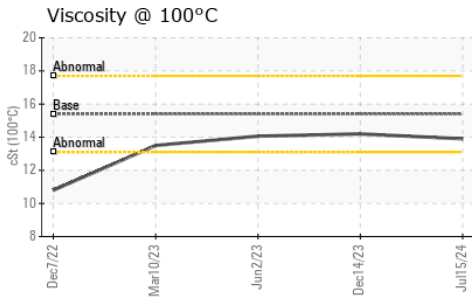
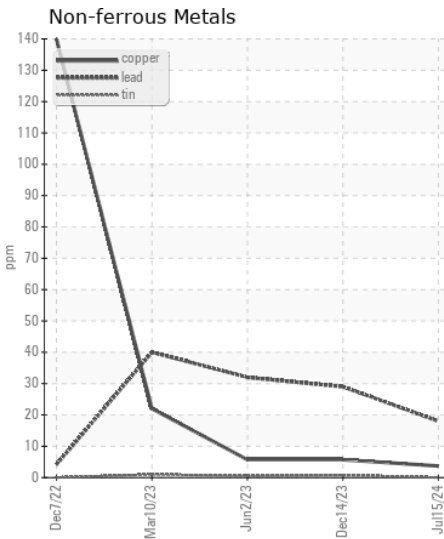
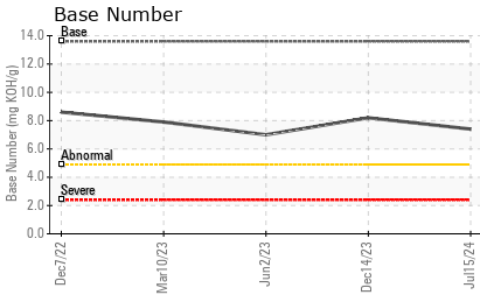
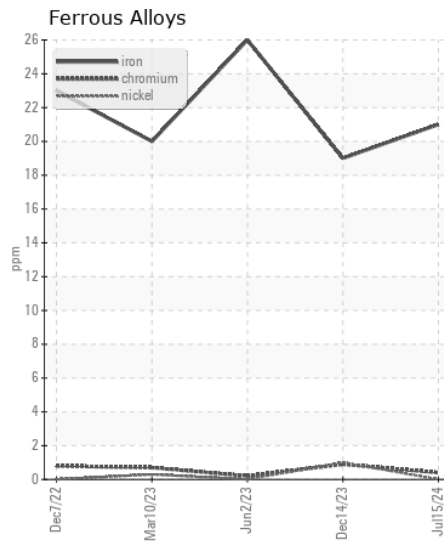
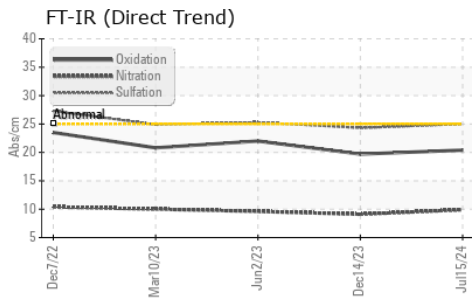
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>7</b>	11	8
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	4	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>0.3</b>	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.9</b>	9.1	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>25.0</b>	24.3	25.3
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>	2	5
Boron	ppm	ASTM D5185m		<b>108</b>	91	70
Barium	ppm	ASTM D5185m		<b>0</b>	13	0
Molybdenum	ppm	ASTM D5185m		<b>260</b>	224	214
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>848</b>	740	759
Calcium	ppm	ASTM D5185m		<b>1724</b>	1579	1708
Phosphorus	ppm	ASTM D5185m		<b>924</b>	926	889
Zinc	ppm	ASTM D5185m		<b>1122</b>	1158	1155
Sulfur	ppm	ASTM D5185m		<b>3441</b>	3345	3864
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.4</b>	19.7	22.0
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>7.4</b>	8.2	7.0
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.9</b>	14.2	14.06



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0226636 **Received** : 18 Jul 2024  
**Lab Number** : 06240141 **Tested** : 19 Jul 2024  
**Unique Number** : 11128975 **Diagnosed** : 19 Jul 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: TBN )

**JRE - MANASSAS PARK**  
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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)