



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



Area  
**[W66809]**  
 Machine Id  
**JOHN DEERE 210G 1FF210GXJNF530688**  
 Component  
**Diesel Engine**  
 Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: W66809 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0215066</b>	JR0206505	JR0177488
Sample Date		Client Info		<b>09 May 2024</b>	04 Mar 2024	26 Oct 2023
Machine Age	hrs	Client Info		<b>1467</b>	1041	663
Oil Age	hrs	Client Info		<b>426</b>	378	663
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>24</b>	27	51
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	2
Nickel	ppm	ASTM D5185m	>5	<b>5</b>	11	8
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>6</b>	5	6
Lead	ppm	ASTM D5185m	>26	<b>&lt;1</b>	0	1
Copper	ppm	ASTM D5185m	>26	<b>14</b>	▲ 58	▲ 249
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	2
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

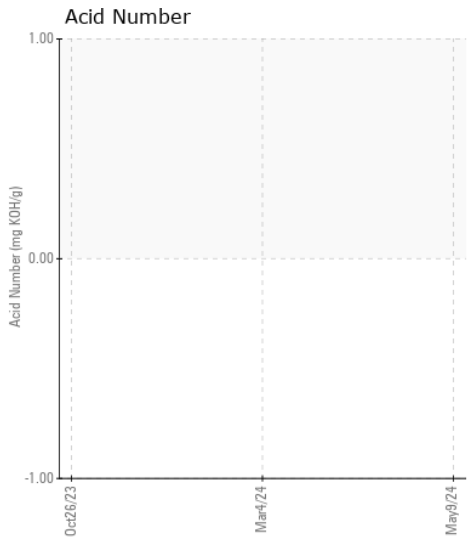
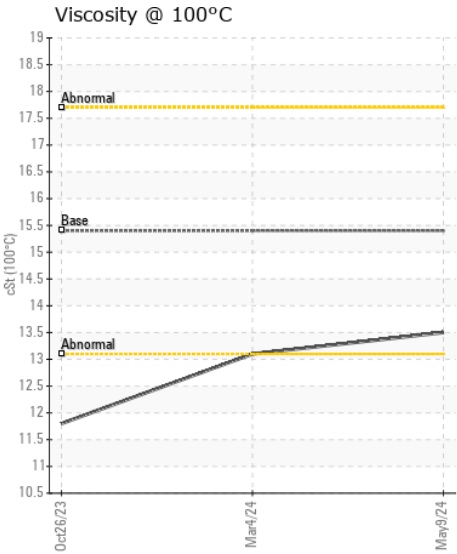
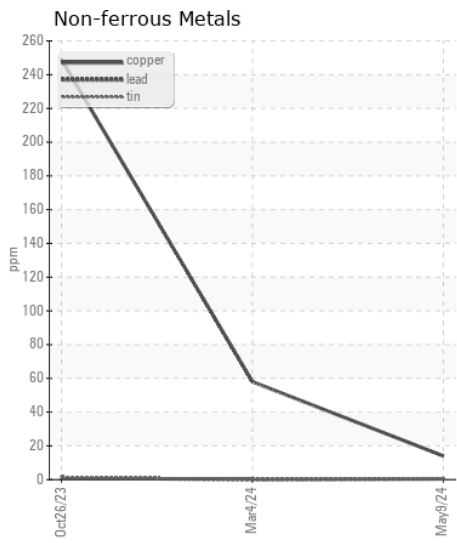
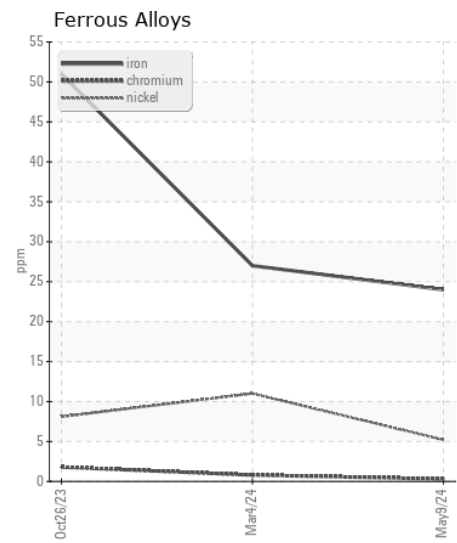
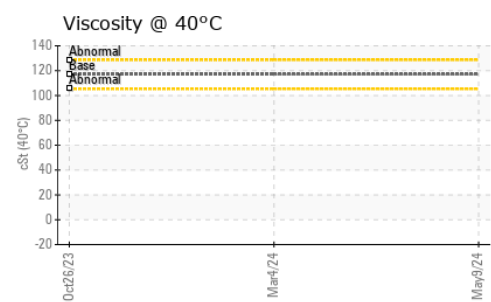
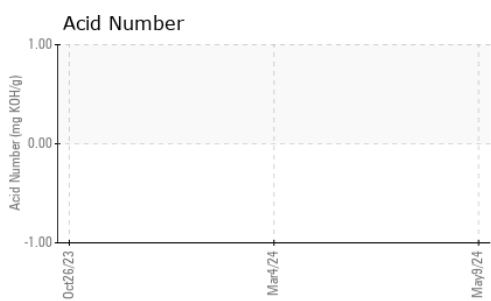
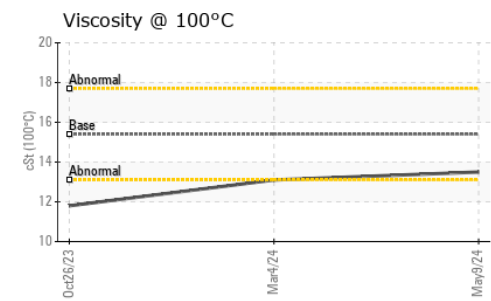
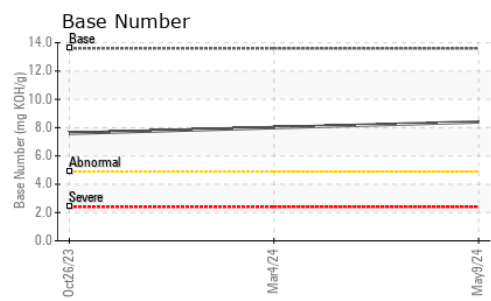
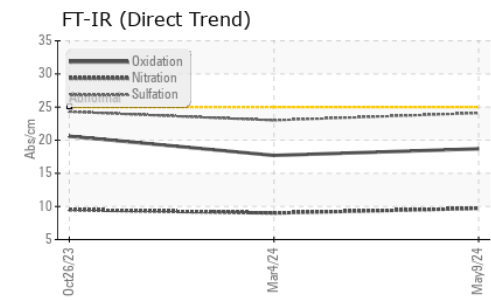
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>7</b>	7	12
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	2
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	0.5
Water		WC Method	>0.21	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.8</b>	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.7</b>	9.0	9.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.1</b>	23.0	24.3
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>31	<b>3</b>	4	4
Boron	ppm	ASTM D5185m		<b>180</b>	201	152
Barium	ppm	ASTM D5185m		<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m		<b>262</b>	247	208
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	5
Magnesium	ppm	ASTM D5185m		<b>855</b>	796	797
Calcium	ppm	ASTM D5185m		<b>1448</b>	1449	1664
Phosphorus	ppm	ASTM D5185m		<b>957</b>	864	966
Zinc	ppm	ASTM D5185m		<b>1093</b>	999	1229
Sulfur	ppm	ASTM D5185m		<b>3297</b>	2652	3015
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.7</b>	17.7	20.6
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>8.4</b>	8.0	7.6
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.5</b>	13.1	11.8



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0215066 **Received** : 10 May 2024  
**Lab Number** : 06175226 **Tested** : 15 May 2024  
**Unique Number** : 11021279 **Diagnosed** : 15 May 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: FT-IR, ICP, KV100, KV40, PQ, PrtCount, SCREEN, TAN Man, TBN )  
 To discuss this sample report, contact Customer Service at 1-800-237-1369. **Contact:** LEO  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. **T:** (704)547-0211  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) **F:**