



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

Machine Id  
**JOHN DEERE 350G 1FF350GXJLF814442**  
 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>JR0209185</b>	JR0190775	JR0116007
Sample Date		Client Info		<b>17 Apr 2024</b>	05 Dec 2023	10 Feb 2022
Machine Age	hrs	Client Info		<b>6039</b>	4571	2524
Oil Age	hrs	Client Info		<b>1468</b>	3467	0
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	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>5</b>	▲ 91	38
Chromium	ppm	ASTM D5185m	>11	<b>1</b>	2	<1
Nickel	ppm	ASTM D5185m	>5	<b>1</b>	▲ 14	▲ 13
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>4</b>	11	5
Lead	ppm	ASTM D5185m	>26	<b>2</b>	6	<1
Copper	ppm	ASTM D5185m	>26	<b>4</b>	12	8
Tin	ppm	ASTM D5185m	>4	<b>1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

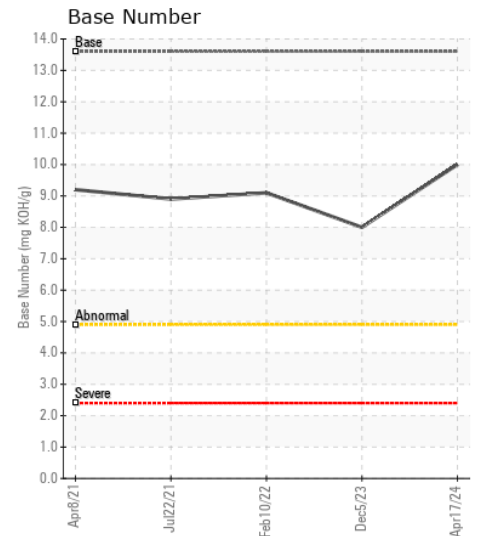
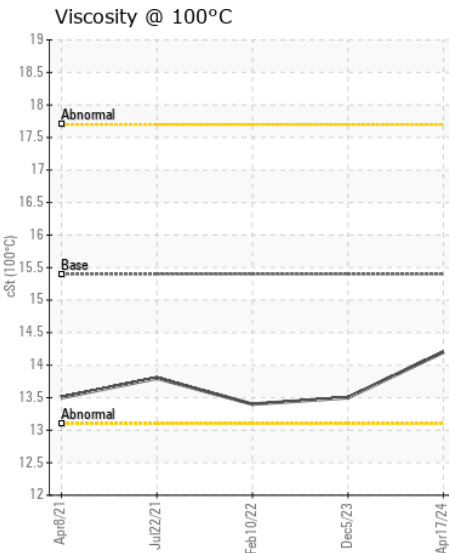
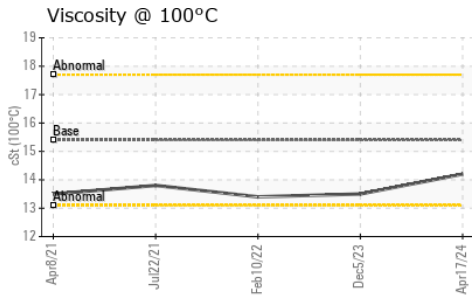
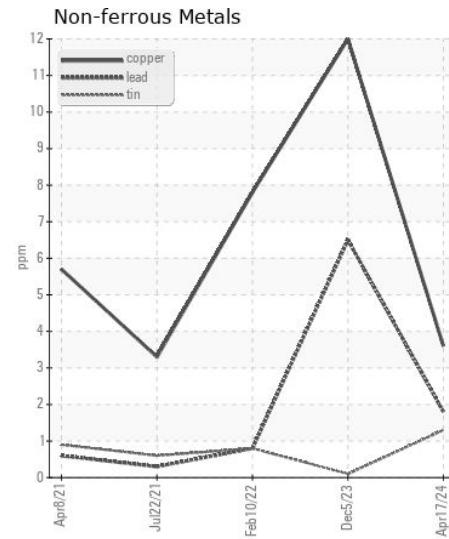
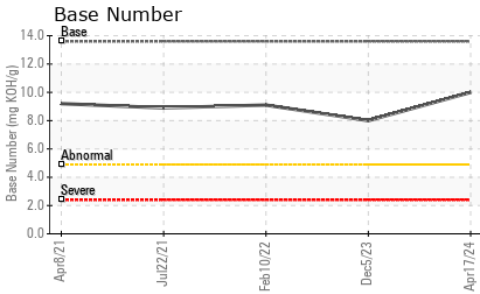
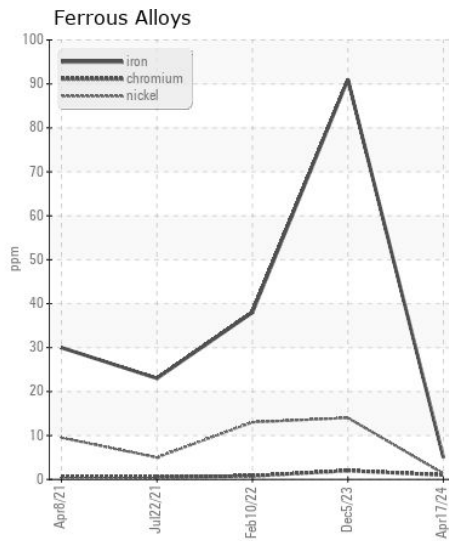
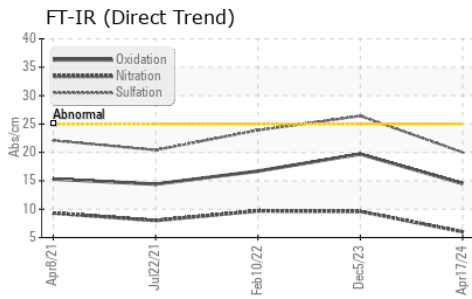
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>10</b>	11	6
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	● 52	2
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>	0.7	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.0</b>	9.6	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.0</b>	26.4	23.9
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>2</b>	● 84	3
Boron	ppm	ASTM D5185m		<b>292</b>	51	138
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	3	<1
Molybdenum	ppm	ASTM D5185m		<b>235</b>	251	234
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>740</b>	783	832
Calcium	ppm	ASTM D5185m		<b>1322</b>	1430	1648
Phosphorus	ppm	ASTM D5185m		<b>897</b>	730	957
Zinc	ppm	ASTM D5185m		<b>1014</b>	996	1099
Sulfur	ppm	ASTM D5185m		<b>3332</b>	3130	2693
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.5</b>	19.7	16.7
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>10.0</b>	8.0	9.1
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.2</b>	13.5	13.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0209185  
**Lab Number** : 06152881  
**Unique Number** : 10982959  
**Test Package** : CONST ( Additional Tests: TBN )

**JRE - GARNER**  
 4161 AUBURN CHURCH RD  
 GARNER, NC  
 US 27529

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: RALEIGH SHOP  
 sean.betts@jamesriverequipment.com; catherine.anastasio@wearcheck.com

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (919)614-2260

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (919)779-5432