



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



Machine Id  
**JOHN DEERE 300G 1FF300GXTNF732045**  
 Component  
**Diesel Engine**  
 Fluid  
**JD PLUS-50 BREAK IN (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0202754</b>	JR0161052	---
Sample Date		Client Info		<b>27 Feb 2024</b>	28 Feb 2023	---
Machine Age	hrs	Client Info		<b>2100</b>	587	---
Oil Age	hrs	Client Info		<b>1513</b>	587	---
Filter Age	hrs	Client Info		<b>0</b>	587	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>13</b>	39	---
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	1	---
Nickel	ppm	ASTM D5185m	>5	<b>4</b>	8	---
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>31	<b>1</b>	4	---
Lead	ppm	ASTM D5185m	>26	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m	>26	<b>2</b>	▲ 243	---
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	2	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

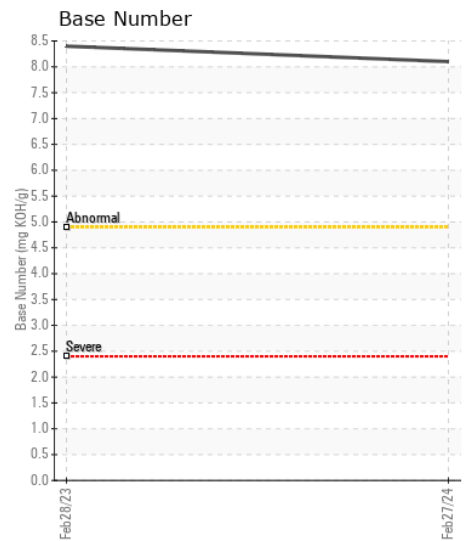
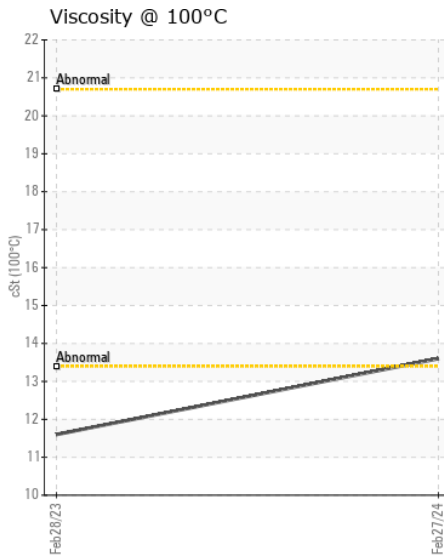
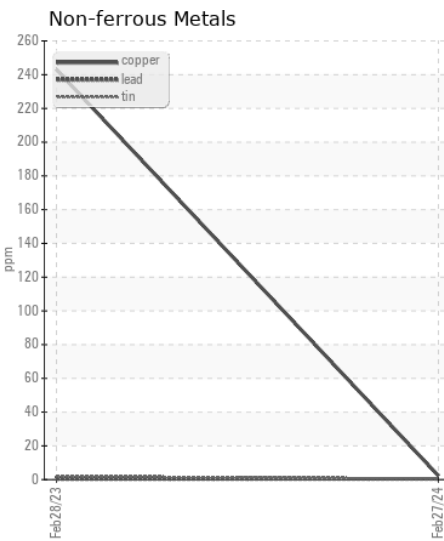
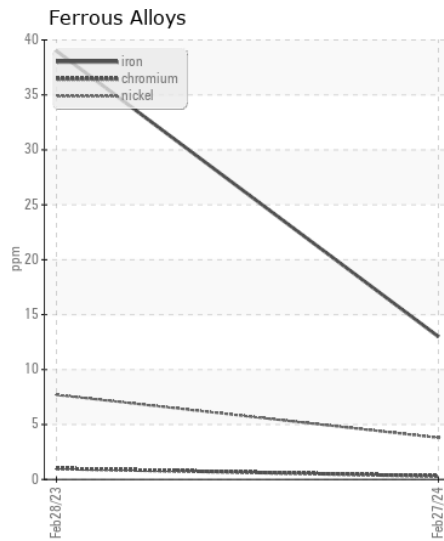
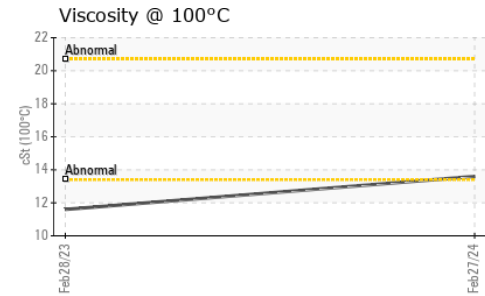
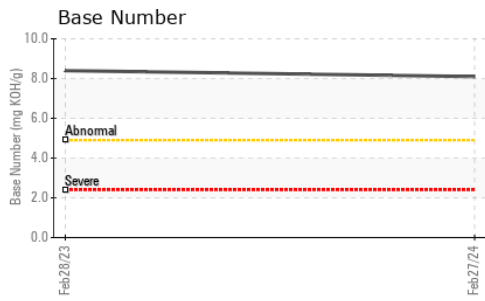
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>6</b>	10	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	3	---
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	0.2	---
Water		WC Method	>0.21	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.7</b>	9.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.7</b>	24.1	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.21	<b>NEG</b>	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>	5	---
Boron	ppm	ASTM D5185m		<b>115</b>	120	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>71</b>	235	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	6	---
Magnesium	ppm	ASTM D5185m		<b>895</b>	754	---
Calcium	ppm	ASTM D5185m		<b>1479</b>	1474	---
Phosphorus	ppm	ASTM D5185m		<b>1079</b>	845	---
Zinc	ppm	ASTM D5185m		<b>1548</b>	1028	---
Sulfur	ppm	ASTM D5185m		<b>3564</b>	2702	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.6</b>	19.8	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.1</b>	8.4	---
Visc @ 100°C	cSt	ASTM D445		<b>13.6</b>	● 11.6	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : JR0202754

**Lab Number** : 06104183

**Unique Number** : 10902413

**Test Package** : CONST ( Additional Tests: TBN )

**Received** : 29 Feb 2024

**Tested** : 01 Mar 2024

**Diagnosed** : 02 Mar 2024 - Don Baldrige

**JRE - GARNER**

4161 AUBURN CHURCH RD

GARNER, NC

US 27529

Contact: RALEIGH SHOP

sean.betts@jamesriverequipment.com; catherine.anastasio@wearcheck.com

T: (919)614-2260

F: (919)779-5432

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)