



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

Machine Id  
**JOHN DEERE 317G 1T0317GJCJJ331619**

Component  
**Diesel Engine**

Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)**

### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0200435</b>	JR0125279	---
Sample Date		Client Info		<b>27 Feb 2024</b>	10 May 2022	---
Machine Age	hrs	Client Info		<b>446</b>	380	---
Oil Age	hrs	Client Info		<b>0</b>	380	---
Filter Age	hrs	Client Info		<b>0</b>	380	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

### WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>51	<b>21</b>	32	---
Chromium	ppm	ASTM D5185m	>11	<b>1</b>	1	---
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>31	<b>19</b>	25	---
Lead	ppm	ASTM D5185m	>26	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m	>26	<b>8</b>	30	---
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

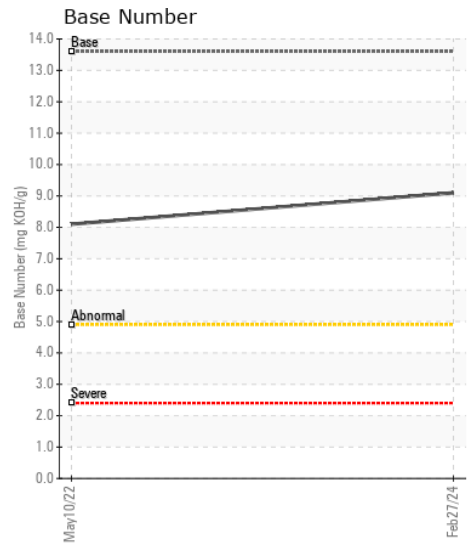
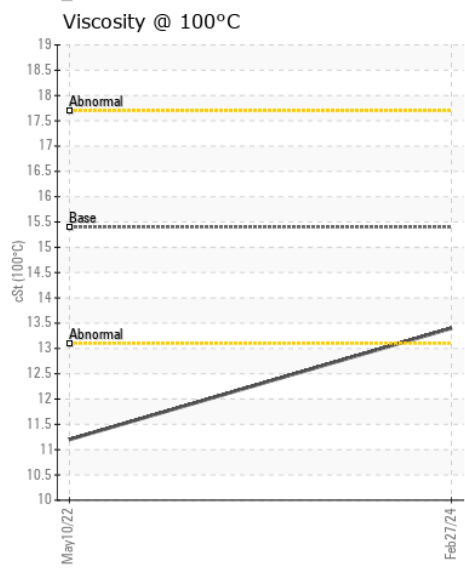
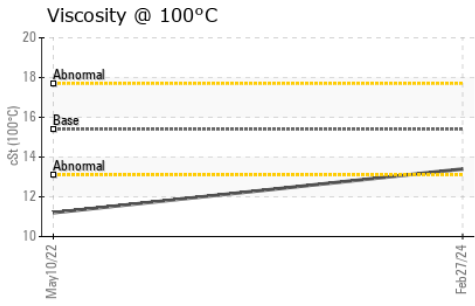
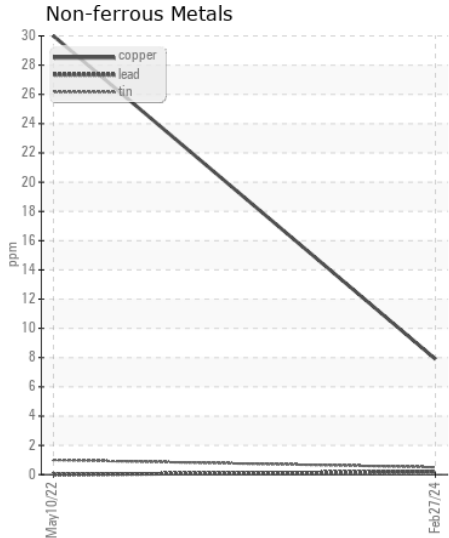
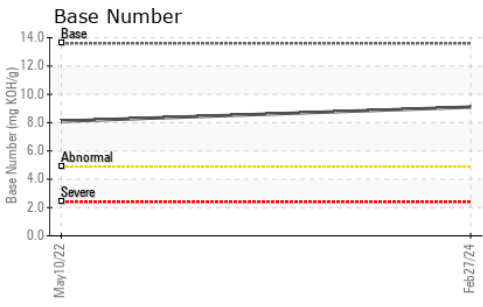
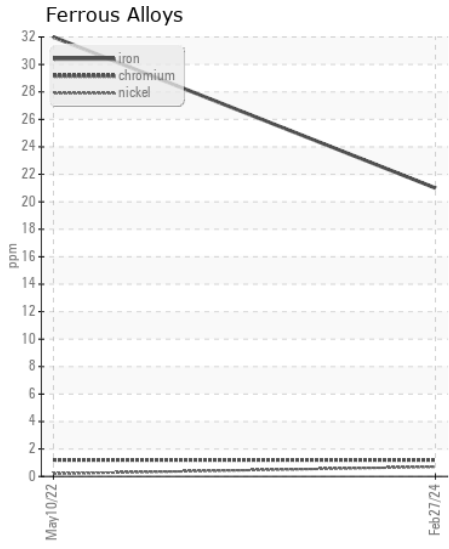
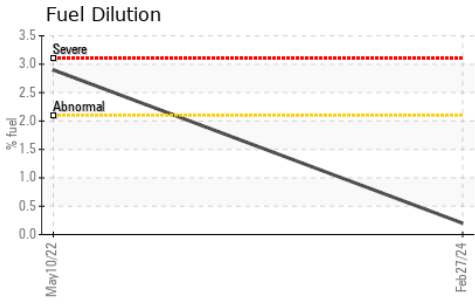
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>18</b>	▲ 36	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	---
Fuel	%	ASTM D3524	>2.1	<b>0.2</b>	▲ 2.9	---
Water		WC Method	>0.21	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.2</b>	9.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.0</b>	21.9	---
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>3</b>	6	---
Boron	ppm	ASTM D5185m		<b>250</b>	177	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>253</b>	207	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	---
Magnesium	ppm	ASTM D5185m		<b>834</b>	720	---
Calcium	ppm	ASTM D5185m		<b>1529</b>	1850	---
Phosphorus	ppm	ASTM D5185m		<b>962</b>	909	---
Zinc	ppm	ASTM D5185m		<b>1148</b>	1087	---
Sulfur	ppm	ASTM D5185m		<b>3545</b>	3138	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.9</b>	17.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>9.1</b>	8.1	---
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.4</b>	▲ 11.2	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0200435 **Received** : 28 Feb 2024  
**Lab Number** : 06102792 **Tested** : 04 Mar 2024  
**Unique Number** : 10901022 **Diagnosed** : 04 Mar 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PercentFuel, TBN )

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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)