



# OIL ANALYSIS REPORT

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

Machine Id  
**JOHN DEERE 333G 1T0333GMHLF387317**

Component  
**Diesel Engine**

Fluid  
**{not provided} (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0207369</b>	JR0170536	---
Sample Date		Client Info		<b>28 Jun 2024</b>	29 Jun 2023	---
Machine Age	hrs	Client Info		<b>332</b>	332	---
Oil Age	hrs	Client Info		<b>332</b>	332	---
Filter Age	hrs	Client Info		<b>0</b>	332	---
Oil Changed		Client Info		<b>N/A</b>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>8</b>	33	---
Chromium	ppm	ASTM D5185m	>11	<b>0</b>	2	---
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	2	---
Titanium	ppm	ASTM D5185m		<b>0</b>	2	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	4	---
Aluminum	ppm	ASTM D5185m	>31	<b>4</b>	6	---
Lead	ppm	ASTM D5185m	>26	<b>&lt;1</b>	7	---
Copper	ppm	ASTM D5185m	>26	<b>12</b>	▲ 277	---
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	2	---
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

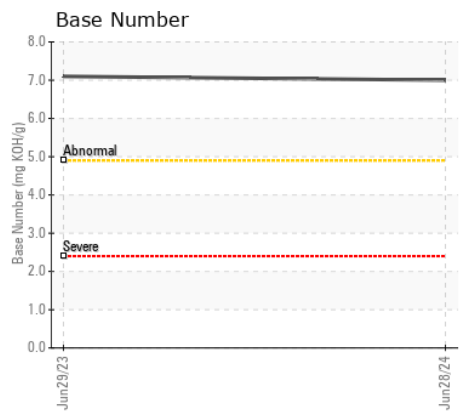
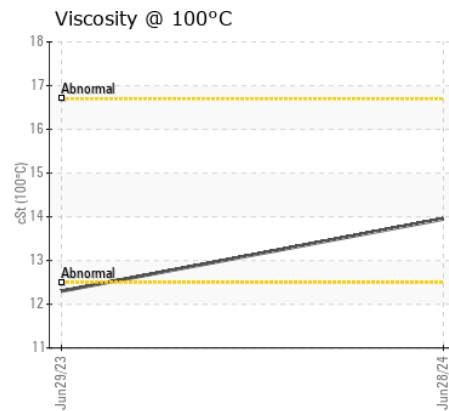
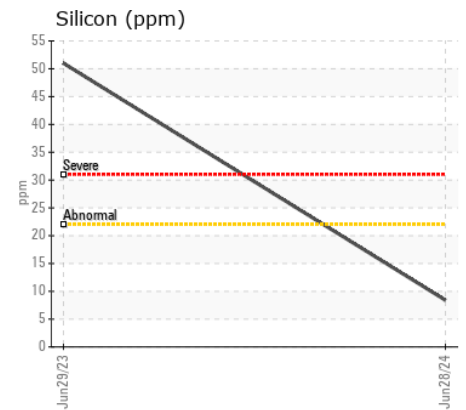
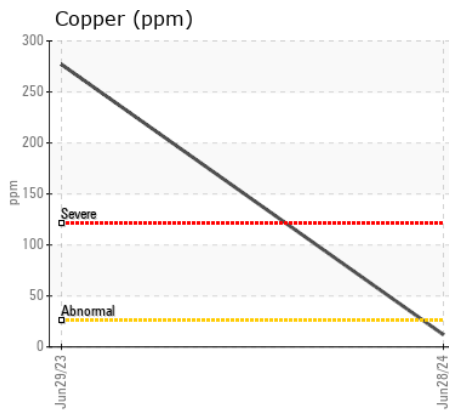
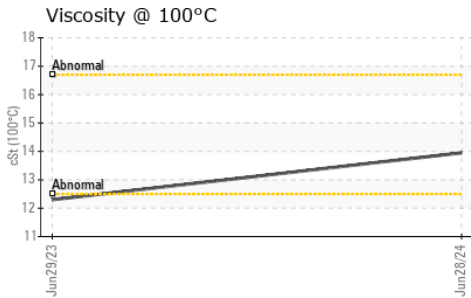
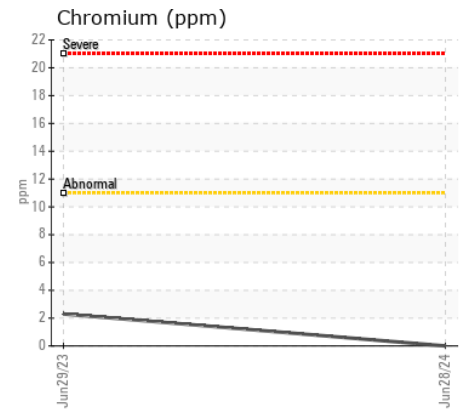
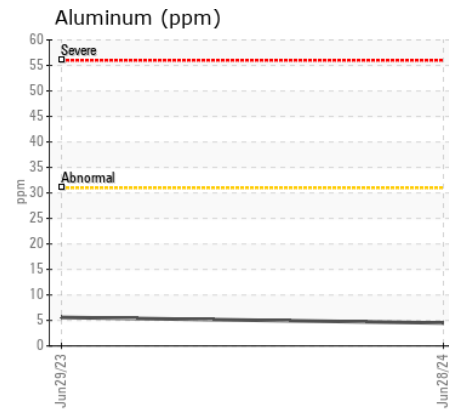
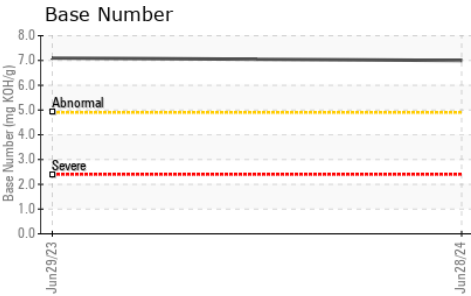
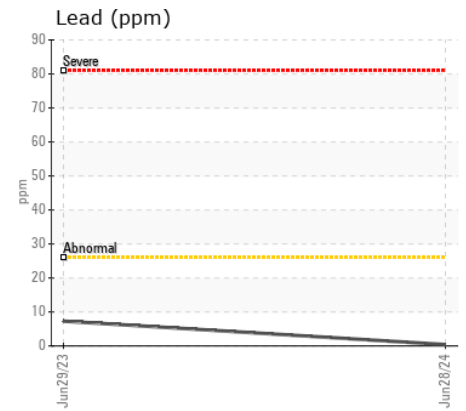
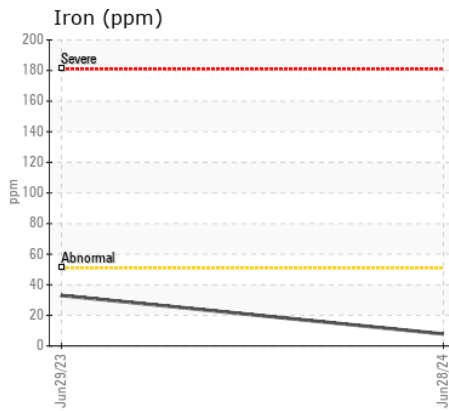
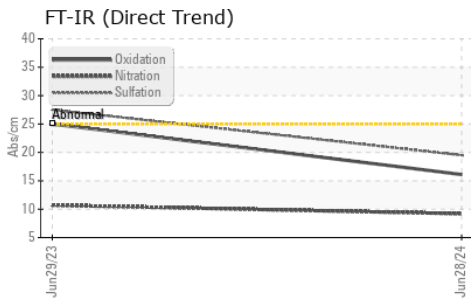
No evidence of fuel present in the oil. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>8</b>	51	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	10	---
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	1.1	---
Water		WC Method	>0.21	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.1</b>	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.2</b>	10.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.5</b>	27.5	---
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>	9	---
Boron	ppm	ASTM D5185m		<b>100</b>	193	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>119</b>	198	---
Manganese	ppm	ASTM D5185m		<b>0</b>	4	---
Magnesium	ppm	ASTM D5185m		<b>171</b>	696	---
Calcium	ppm	ASTM D5185m		<b>2267</b>	1650	---
Phosphorus	ppm	ASTM D5185m		<b>1091</b>	793	---
Zinc	ppm	ASTM D5185m		<b>1300</b>	998	---
Sulfur	ppm	ASTM D5185m		<b>4614</b>	3528	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.1</b>	25.0	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.0</b>	7.1	---
Visc @ 100°C	cSt	ASTM D445		<b>13.95</b>	● 12.3	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0207369 **Received** : 08 Jul 2024  
**Lab Number** : 06230724 **Tested** : 08 Jul 2024  
**Unique Number** : 11114217 **Diagnosed** : 08 Jul 2024 - Doug Bogart  
**Test Package** : MOBCE ( Additional Tests: TBN )

**JRE - SALEM**  
 3902 W. MAIN STREET  
 SALEM, VA  
 US 24153  
 Contact: BUTCH GOAD  
 bgoad@jrenet.com

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)

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