



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

Area

**[05W44233]**

Machine Id

**JOHN DEERE 324G 1T0324GMHPJ433658**

Component

**Right Chain Drive**

Fluid

**JOHN DEERE HY-GARD HYDRAULIC/RANSMISSION (5 GAL)**

**RECOMMENDATION**

We advise that you check for the source of water entry. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0199442</b>	---	---
Sample Date		Client Info		<b>05 Jan 2024</b>	---	---
Machine Age	hrs	Client Info		<b>510</b>	---	---
Oil Age	hrs	Client Info		<b>510</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Not Changd</b>	---	---
Filter Changed		Client Info		<b>N/A</b>	---	---
Sample Status				<b>SEVERE</b>	---	---

**WEAR**

All component wear rates are normal.

PQ		ASTM D8184		<b>90</b>	---	---
Iron	ppm	ASTM D5185m	>200	<b>70</b>	---	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m		<b>2</b>	---	---
Lead	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185m		<b>2</b>	---	---
Tin	ppm	ASTM D5185m		<b>3</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

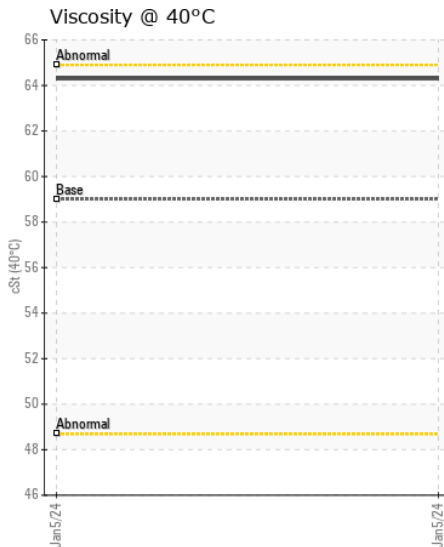
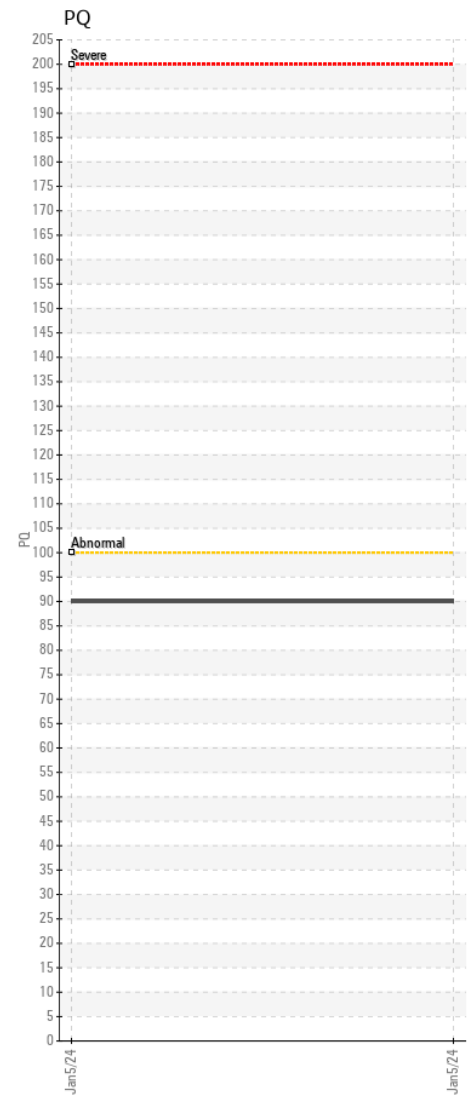
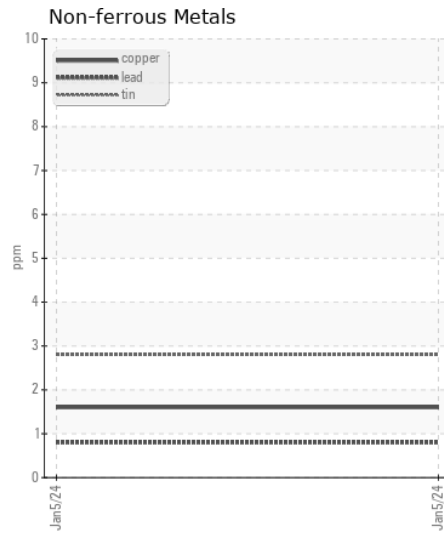
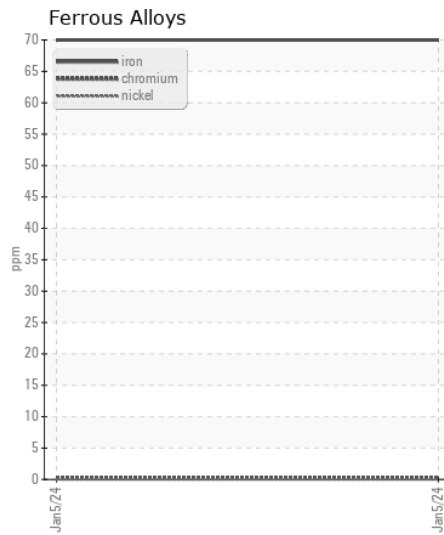
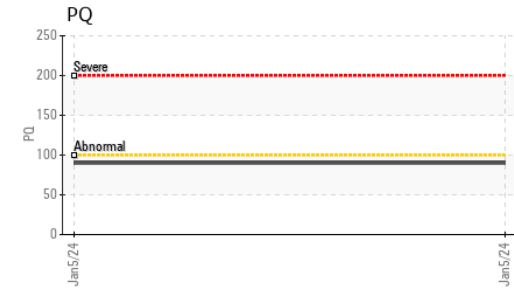
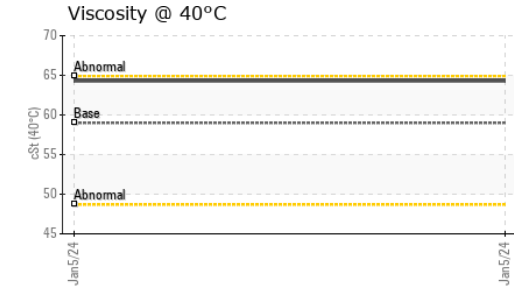
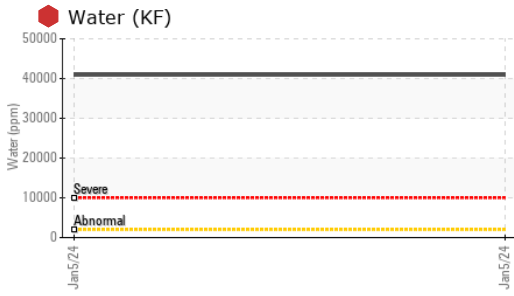
There is a high concentration of water present in the oil.

Silicon	ppm	ASTM D5185m		<b>14</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	---	---
Water	%	ASTM D6304	>0.2	<b>4.09</b>	---	---
ppm Water	ppm	ASTM D6304	>2000	<b>40900</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.2	<b>0.2%</b>	---	---

**FLUID CONDITION**

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		<b>0</b>	---	---
Boron	ppm	ASTM D5185m		<b>8</b>	---	---
Barium	ppm	ASTM D5185m		<b>25</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	---	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>90</b>	---	---
Calcium	ppm	ASTM D5185m		<b>3076</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>1041</b>	---	---
Zinc	ppm	ASTM D5185m		<b>1292</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>3629</b>	---	---
Visc @ 40°C	cSt	ASTM D445	59	<b>64.3</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0199442 **Received** : 09 Jan 2024  
**Lab Number** : 06056021 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10821970 **Diagnostician** : Don Baldrige  
**Test Package** : CONST ( Additional Tests: KF, PQ )

**JRE - MANASSAS PARK**  
 9107 OWENS DRIVE  
 MANASSAS PARK, VA  
 US 20111

Contact: TECHNICIAN ACCOUNT  
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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)