



**James River  
Equipment**

**OIL ANALYSIS REPORT**

WEAR  
CONTAMINATION  
FLUID CONDITION

**ABNORMAL**

**NORMAL**

**NORMAL**



Area

**[W62994]**

Machine Id

**JOHN DEERE 672G 1DW672GXVCE644735**

Component

**Circle Gearbox**

Fluid

**JOHN DEERE HY-GARD HYD/TRANS (2 GAL)**

**RECOMMENDATION**

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: W62994 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0198944</b>	JRMC397042	---
Sample Date		Client Info		<b>11 Jan 2024</b>	06 Sep 2016	---
Machine Age	hrs	Client Info		<b>6678</b>	2472	---
Oil Age	hrs	Client Info		<b>6678</b>	2472	---
Filter Age	hrs	Client Info		<b>0</b>	2472	---
Oil Changed		Client Info		<b>Changed</b>	Not Changd	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>ABNORMAL</b>	MARGINAL	---

**WEAR**

The aluminum level is abnormal. The copper level is abnormal.

PQ		ASTM D8184		<b>17</b>	13.0	---
Iron	ppm	ASTM D5185m	>200	<b>37</b>	5	---
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m		<b>▲ 94</b>	9	---
Lead	ppm	ASTM D5185m		<b>10</b>	<1	---
Copper	ppm	ASTM D5185m		<b>▲ 669</b>	<b>▲ 256</b>	---
Tin	ppm	ASTM D5185m		<b>0</b>	6	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	---

**CONTAMINATION**

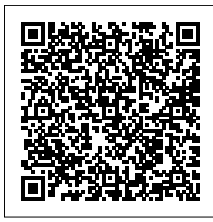
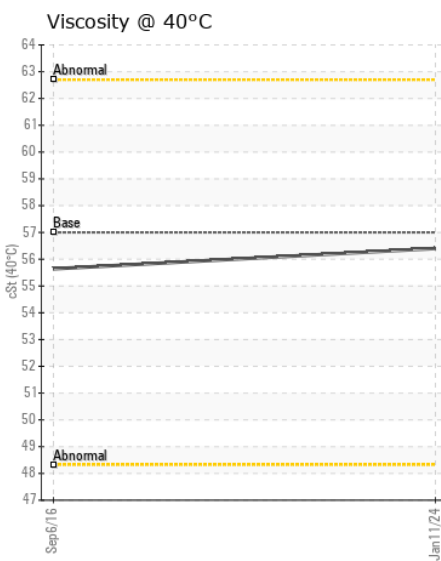
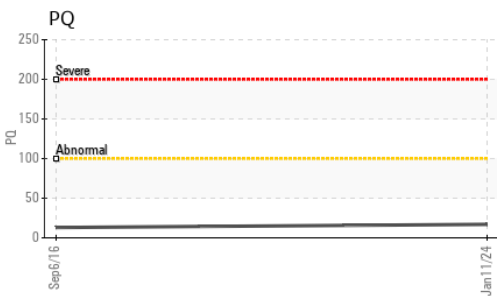
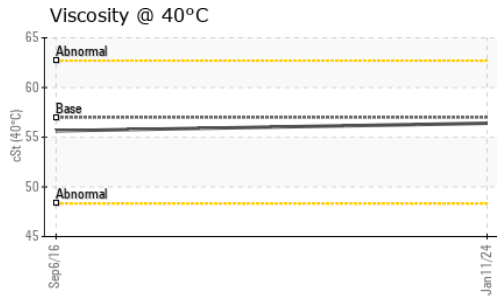
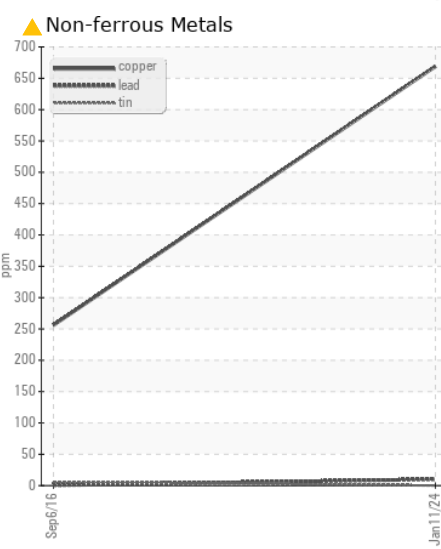
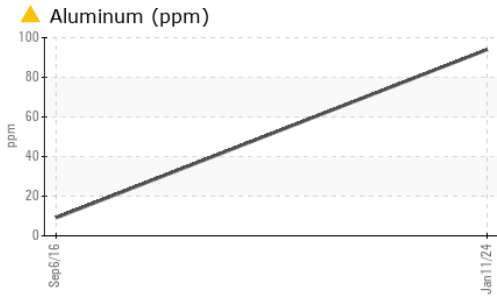
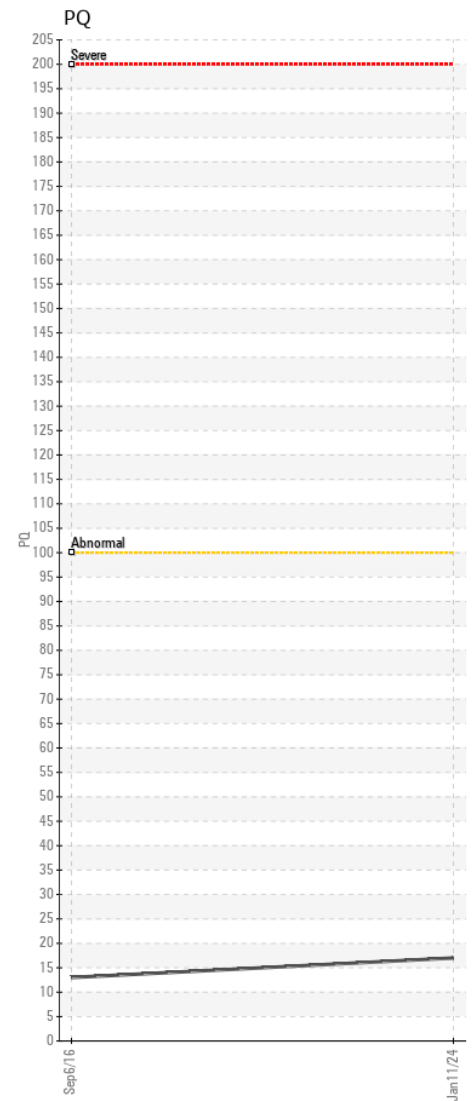
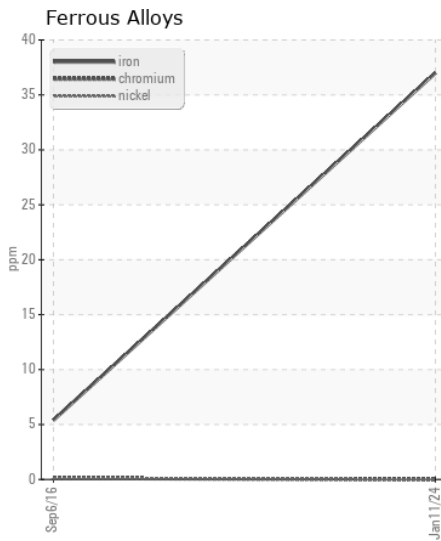
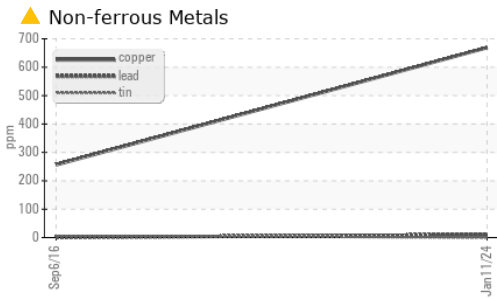
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m		<b>8</b>	5	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
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	>0.2	<b>NEG</b>	NEG	---

**FLUID CONDITION**

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>2</b>	5	---
Boron	ppm	ASTM D5185m	6	<b>0</b>	3	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>37</b>	5	---
Magnesium	ppm	ASTM D5185m	145	<b>105</b>	97	---
Calcium	ppm	ASTM D5185m	3570	<b>3452</b>	3246	---
Phosphorus	ppm	ASTM D5185m	1290	<b>1077</b>	837	---
Zinc	ppm	ASTM D5185m	1640	<b>1565</b>	1158	---
Sulfur	ppm	ASTM D5185m		<b>3707</b>	3340	---
Visc @ 40°C	cSt	ASTM D445	57.0	<b>56.4</b>	55.64	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0198944 **Received** : 17 Jan 2024  
**Lab Number** : 06063036 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10834418 **Diagnostician** : Jonathan Hester  
**Test Package** : CONST ( Additional Tests: PQ )

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Certificate L2367  
 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)