



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



Machine Id  
**JOHN DEERE 744K 1DW744KXCJF689230**

Component  
**Brake**

Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (1 QTS)**

### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The fluid change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0199110</b>	JR0077376	---
Sample Date		Client Info		<b>21 Feb 2024</b>	29 Mar 2021	---
Machine Age	hrs	Client Info		<b>4983</b>	1332	---
Oil Age	hrs	Client Info		<b>4983</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Not Changd	---
Filter Changed		Client Info		<b>None</b>	N/A	---
Sample Status				<b>SEVERE</b>	NORMAL	---

### WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>145</b>	24	---
Iron	ppm	ASTM D5185m	>350	<b>630</b>	33	---
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>5	<b>2</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>47</b>	<1	---
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>8	<b>2</b>	<1	---
Lead	ppm	ASTM D5185m	>10	<b>34</b>	17	---
Copper	ppm	ASTM D5185m	>150	<b>3</b>	6	---
Tin	ppm	ASTM D5185m	>5	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

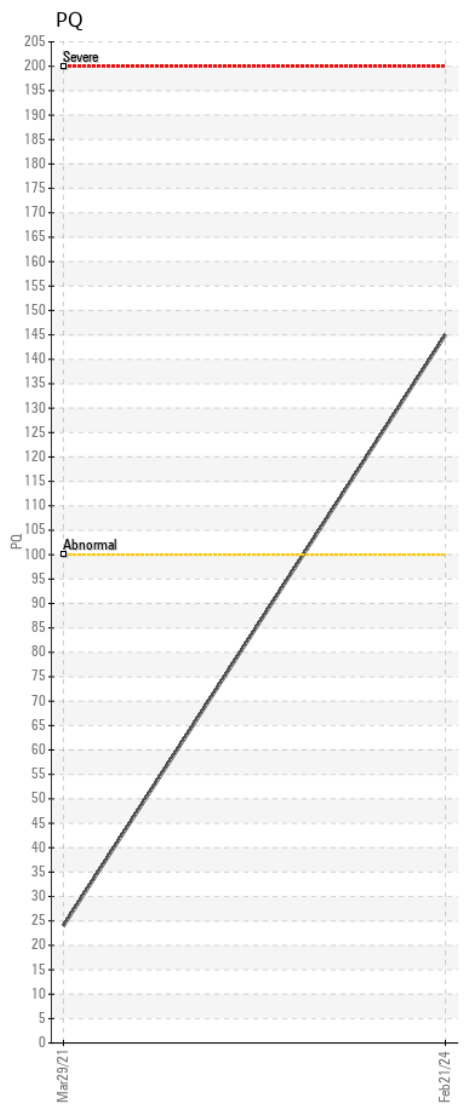
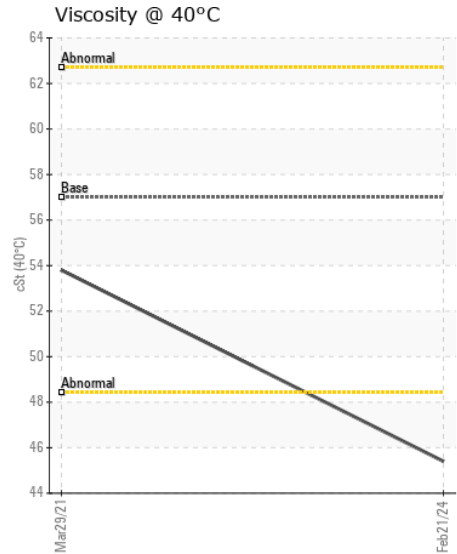
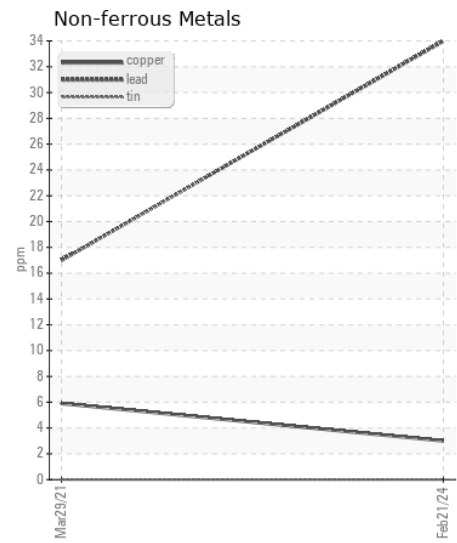
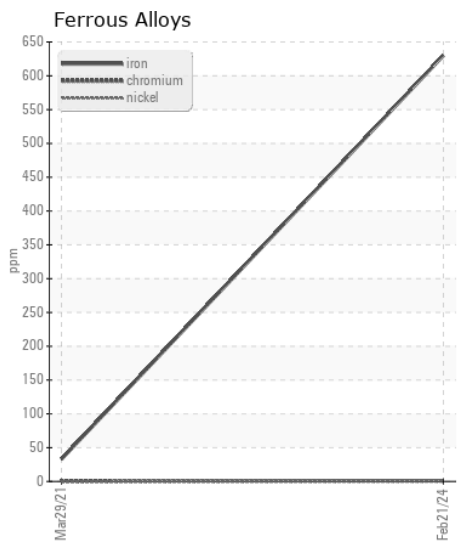
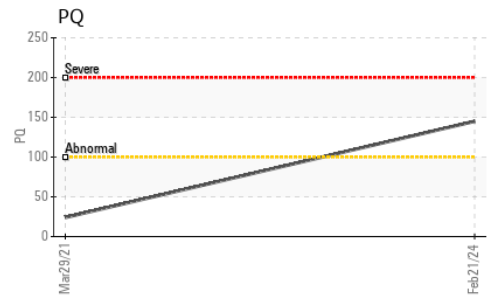
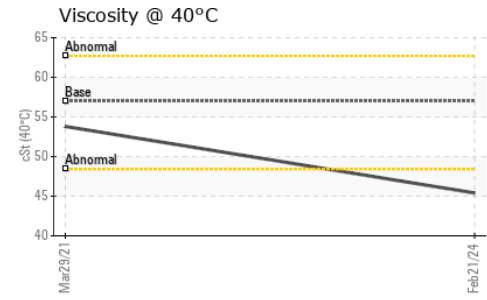
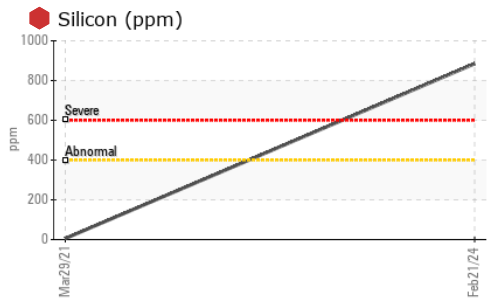
Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material.

Silicon	ppm	ASTM D5185m	>400	<b>885</b>	5	---
Potassium	ppm	ASTM D5185m	>20	<b>7</b>	7	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>LIGHT</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 fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>6</b>	5	---
Boron	ppm	ASTM D5185m	6	<b>329</b>	11	---
Barium	ppm	ASTM D5185m	0	<b>6</b>	0	---
Molybdenum	ppm	ASTM D5185m	0	<b>81</b>	6	---
Manganese	ppm	ASTM D5185m		<b>7</b>	<1	---
Magnesium	ppm	ASTM D5185m	145	<b>1087</b>	138	---
Calcium	ppm	ASTM D5185m	3570	<b>1632</b>	3868	---
Phosphorus	ppm	ASTM D5185m	1290	<b>991</b>	1090	---
Zinc	ppm	ASTM D5185m	1640	<b>1072</b>	1330	---
Sulfur	ppm	ASTM D5185m		<b>4672</b>	3143	---
Visc @ 40°C	cSt	ASTM D445	57.0	<b>45.4</b>	53.8	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0199110 **Received** : 22 Feb 2024  
**Lab Number** : 06097965 **Tested** : 23 Feb 2024  
**Unique Number** : 10896195 **Diagnosed** : 25 Feb 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - MANASSAS PARK**  
 9107 OWENS DRIVE  
 MANASSAS PARK, VA  
 US 20111  
 Contact: DON VEST  
 dvest@jamesriverequipment.com  
 T: (703)631-8500  
 F: (703)631-4715

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)