



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

Machine Id  
**JOHN DEERE CP690 1N0C690PHK4075724 - 4WD**

Component  
**Gearbox**

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

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0216841</b>	---	---
Sample Date		Client Info		<b>07 Jul 2024</b>	---	---
Machine Age	hrs	Client Info		<b>1264</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>N/A</b>	---	---
Filter Changed		Client Info		<b>N/A</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

**WEAR**

All component wear rates are normal.

PQ		ASTM D8184		<b>66</b>	---	---
Iron	ppm	ASTM D5185m	>200	<b>91</b>	---	---
Chromium	ppm	ASTM D5185m	>10	<b>1</b>	---	---
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m		<b>1</b>	---	---
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	---	---
Lead	ppm	ASTM D5185m	>50	<b>2</b>	---	---
Copper	ppm	ASTM D5185m	>200	<b>4</b>	---	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</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**

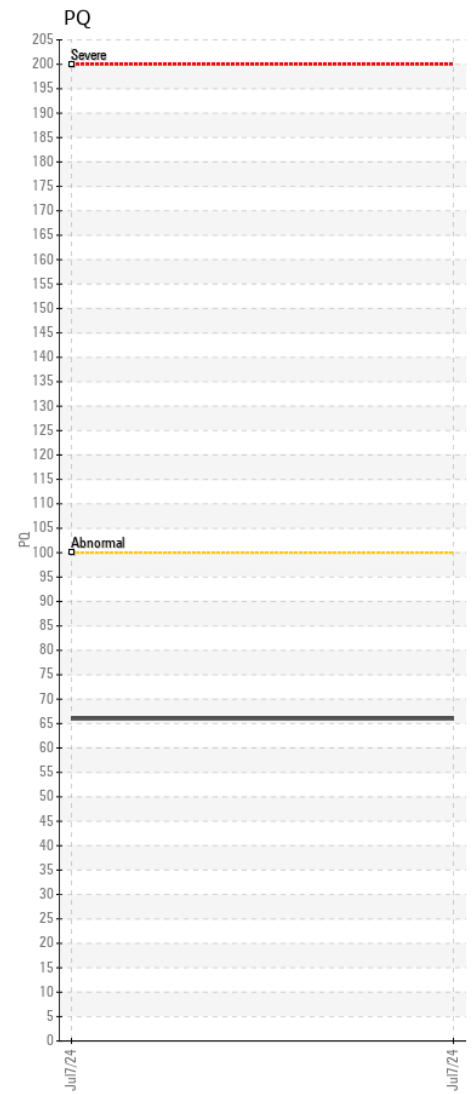
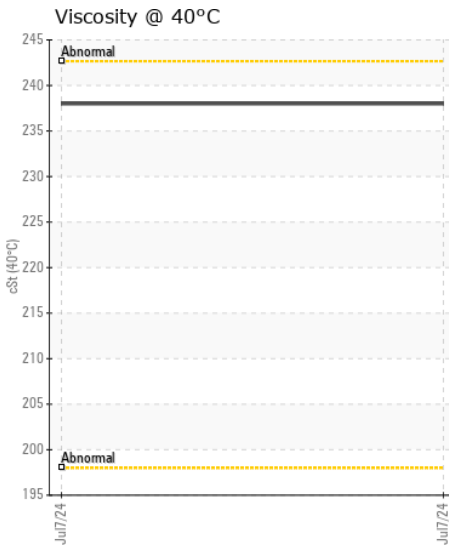
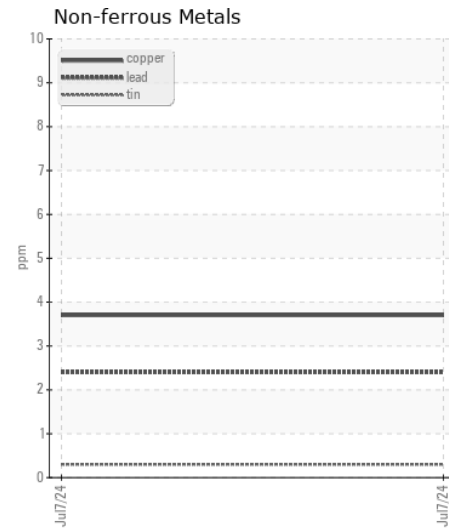
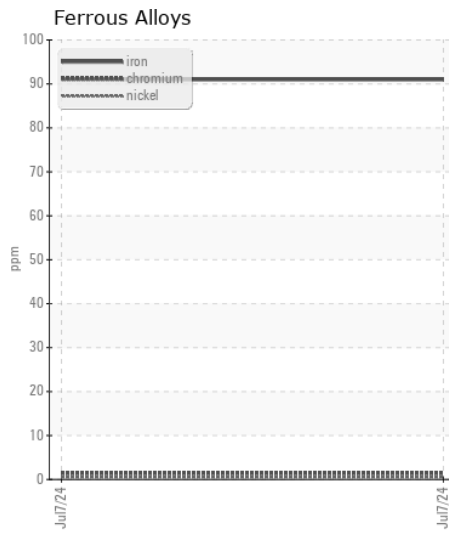
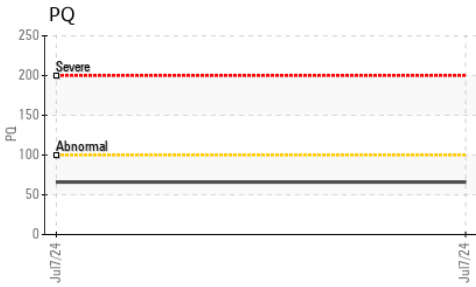
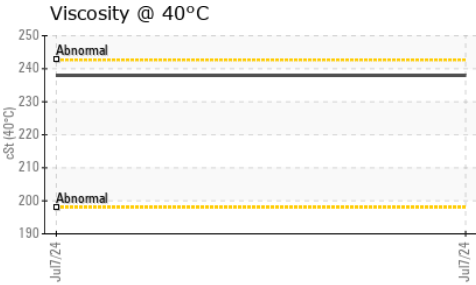
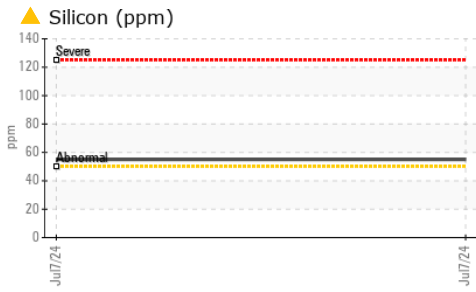
Elemental level of silicon (Si) above normal indicating ingress of seal material.

Silicon	ppm	ASTM D5185m	>50	<b>▲ 55</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>14</b>	---	---
Water		WC Method	>0.2	<b>NEG</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>NEG</b>	---	---

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		<b>2</b>	---	---
Boron	ppm	ASTM D5185m		<b>5</b>	---	---
Barium	ppm	ASTM D5185m		<b>11</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>10</b>	---	---
Manganese	ppm	ASTM D5185m		<b>2</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>3</b>	---	---
Calcium	ppm	ASTM D5185m		<b>243</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>175</b>	---	---
Zinc	ppm	ASTM D5185m		<b>37</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>18610</b>	---	---
Visc @ 40°C	cSt	ASTM D445		<b>238</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0216841  
**Lab Number** : 06230443  
**Unique Number** : 11113936  
**Test Package** : CONST ( Additional Tests: PQ )

**Received** : 08 Jul 2024  
**Tested** : 09 Jul 2024  
**Diagnosed** : 10 Jul 2024 - Don Baldrige

**JRE - WAKEFIELD**  
 10489 GENERAL MAHONE HWY  
 WAKEFIELD, VA  
 US 23888  
 Contact: BILL ACKER  
 backer@jamesriverequipment.com  
 T: (757)899-3232  
 F: (757)899-6464

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)