



**James River  
Equipment**

**OIL ANALYSIS REPORT**

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



Machine Id  
**JOHN DEERE 350GLC 1FF350GXALF814428**  
Component  
**Pump Drive**  
Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (1 QTS)**

**RECOMMENDATION**

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0208564</b>	JR0211001	---
Sample Date		Client Info		<b>11 Jul 2024</b>	08 Apr 2024	---
Machine Age	hrs	Client Info		<b>4985</b>	4474	---
Oil Age	hrs	Client Info		<b>4985</b>	598	---
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>	Not Changd	---
Sample Status				<b>ABNORMAL</b>	ABNORMAL	---

**WEAR**

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>24</b>	25	---
Iron	ppm	ASTM D5185m	>151	<b>133</b>	136	---
Chromium	ppm	ASTM D5185m	>11	<b>3</b>	3	---
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	2	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>21	<b>6</b>	8	---
Lead	ppm	ASTM D5185m	>51	<b>&lt;1</b>	1	---
Copper	ppm	ASTM D5185m	>51	<b>1</b>	1	---
Tin	ppm	ASTM D5185m	>4	<b>0</b>	1	---
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**

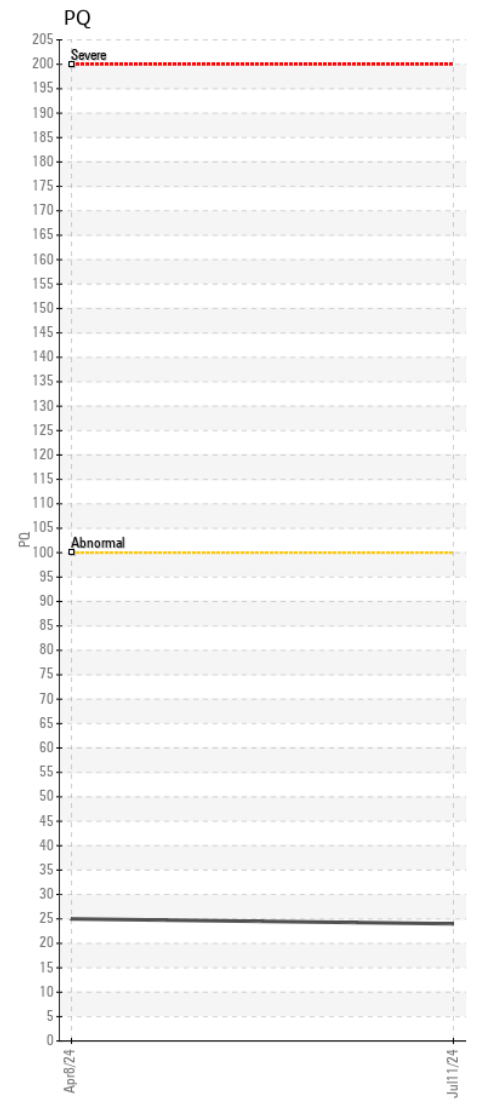
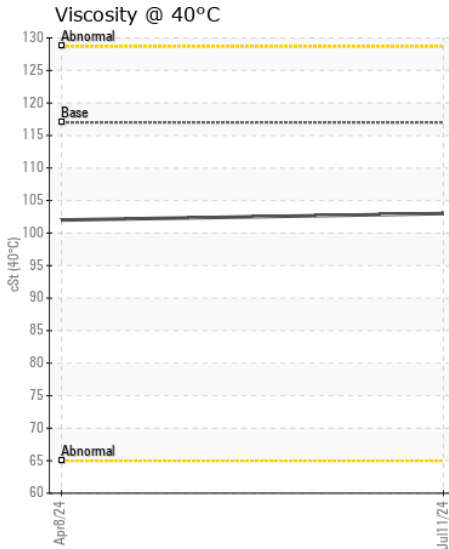
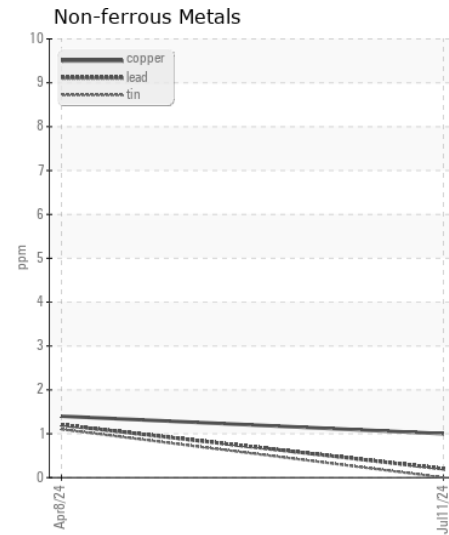
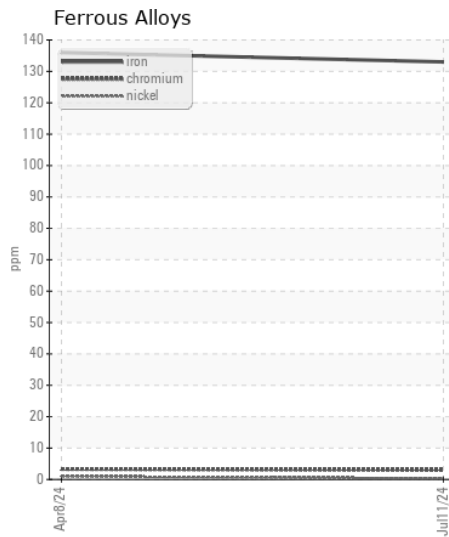
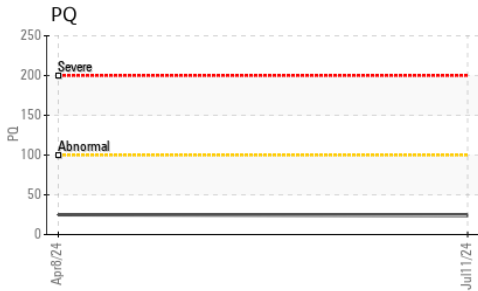
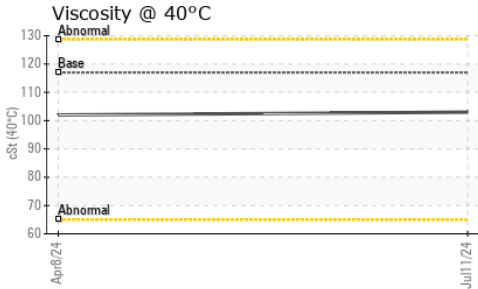
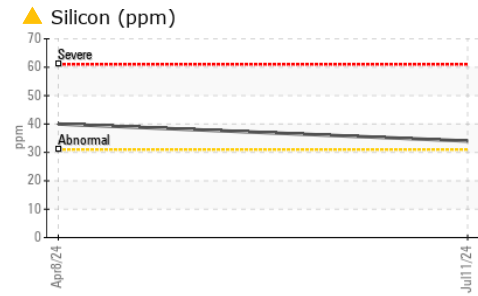
Elemental level of silicon (Si) above normal indicating ingress of seal material.

Silicon	ppm	ASTM D5185m	>31	<b>▲ 34</b>	▲ 40	---
Potassium	ppm	ASTM D5185m	>20	<b>7</b>	8	---
Water		WC Method	>0.1	<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	>0.1	<b>NEG</b>	NEG	---

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m	>51	<b>20</b>	23	---
Boron	ppm	ASTM D5185m		<b>8</b>	7	---
Barium	ppm	ASTM D5185m		<b>0</b>	1	---
Molybdenum	ppm	ASTM D5185m		<b>34</b>	35	---
Manganese	ppm	ASTM D5185m		<b>3</b>	4	---
Magnesium	ppm	ASTM D5185m		<b>453</b>	437	---
Calcium	ppm	ASTM D5185m		<b>2058</b>	2119	---
Phosphorus	ppm	ASTM D5185m		<b>1074</b>	1144	---
Zinc	ppm	ASTM D5185m		<b>1195</b>	1161	---
Sulfur	ppm	ASTM D5185m		<b>7675</b>	9256	---
Visc @ 40°C	cSt	ASTM D445	117	<b>103</b>	102	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0208564 **Received** : 15 Jul 2024  
**Lab Number** : 06236416 **Tested** : 16 Jul 2024  
**Unique Number** : 11125250 **Diagnosed** : 17 Jul 2024 - Sean Felton  
**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)