



WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Area  
**[05W46281]**  
 Machine Id  
**JOHN DEERE 135G 1FF135GXKEE400742**  
 Component  
**Right Final Drive**  
 Fluid  
**JOHN DEERE GL-5 80W90 (6 QTS)**

### RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0214658</b>	JR0174854	JR0162760
Sample Date		Client Info		<b>22 Apr 2024</b>	14 Jun 2023	16 Feb 2023
Machine Age	hrs	Client Info		<b>6070</b>	6070	5562
Oil Age	hrs	Client Info		<b>500</b>	4543	4961
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>SEVERE</b>	ABNORMAL	SEVERE

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	<b>149</b>	336	287
Iron	ppm	ASTM D5185m	>750	<b>344</b>	1041	▲ 640
Chromium	ppm	ASTM D5185m	>9	<b>4</b>	13	9
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	4	3
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	3	2
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>4</b>	● 19	8
Lead	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	2
Copper	ppm	ASTM D5185m	>40	<b>1</b>	3	2
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	2	3
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

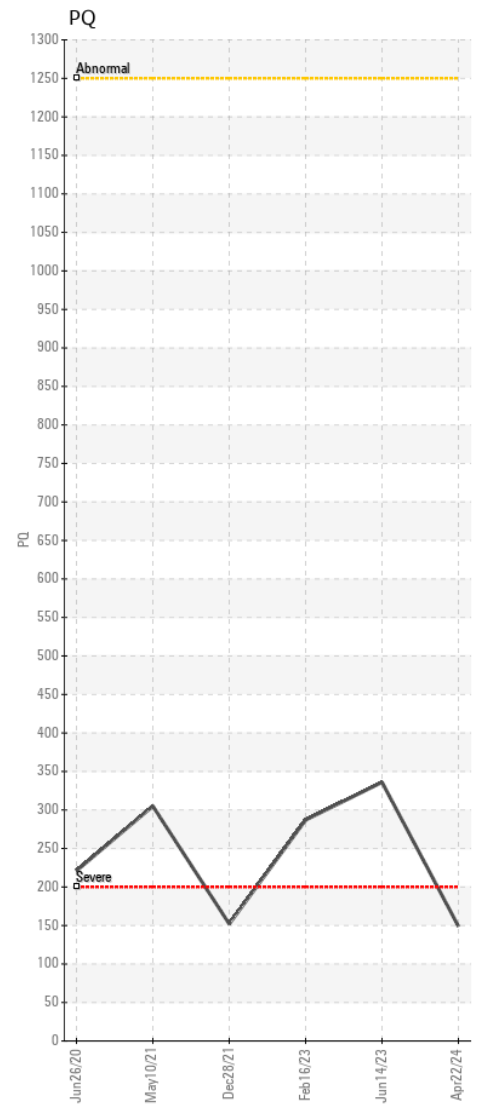
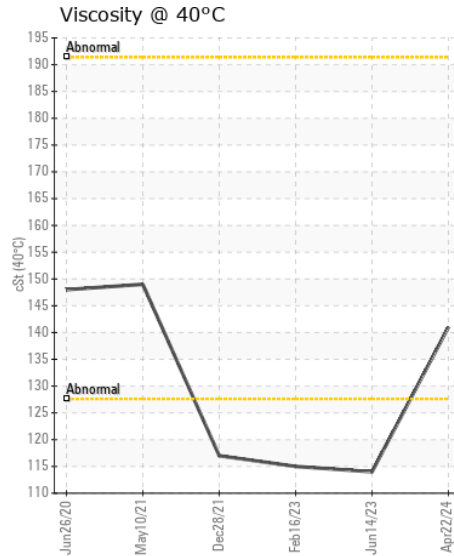
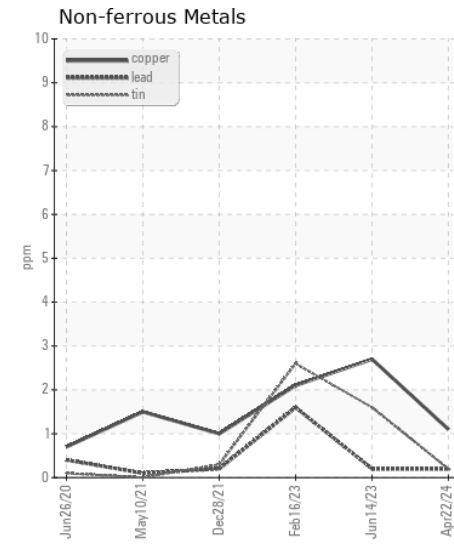
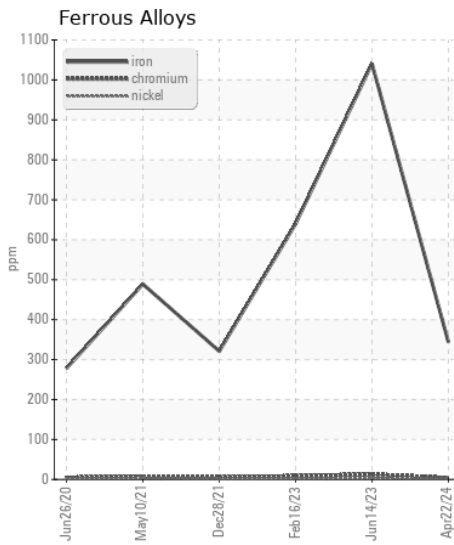
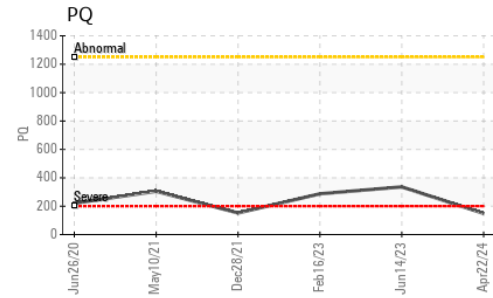
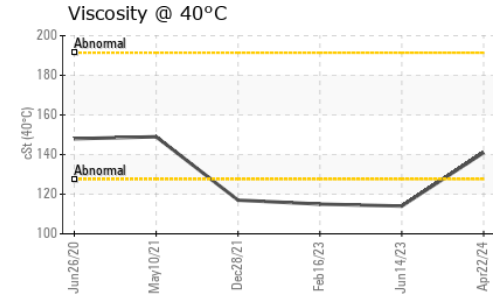
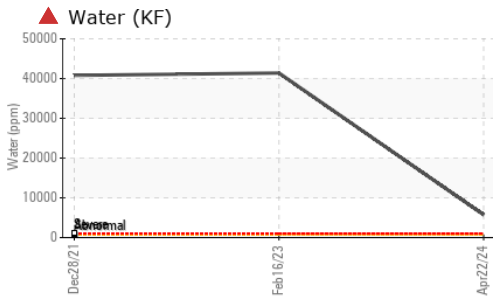
There is a high concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>42</b>	▲ 174	73
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	8	7
Water	%	ASTM D6304	>0.075	▲ <b>0.574</b>	---	▲ 4.14
ppm Water	ppm	ASTM D6304	>750	▲ <b>5740</b>	---	▲ 41400
Silt	scalar	*Visual	NONE	<b>NONE</b>	MODER	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	● MILKY
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	▲ <b>0.2%</b>	NEG	▲ 0.2%

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	<b>&lt;1</b>	0	<1
Boron	ppm	ASTM D5185m		<b>132</b>	44	44
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	1	1
Manganese	ppm	ASTM D5185m		<b>4</b>	11	8
Magnesium	ppm	ASTM D5185m		<b>4</b>	3	3
Calcium	ppm	ASTM D5185m		<b>74</b>	28	46
Phosphorus	ppm	ASTM D5185m		<b>926</b>	506	451
Zinc	ppm	ASTM D5185m		<b>53</b>	288	270
Sulfur	ppm	ASTM D5185m		<b>18976</b>	17498	16056
Visc @ 40°C	cSt	ASTM D445		<b>141</b>	114	115



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0214658 **Received** : 23 Apr 2024  
**Lab Number** : 06158546 **Tested** : 25 Apr 2024  
**Unique Number** : 10993969 **Diagnosed** : 25 Apr 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: KF, PQ )

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)

**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