



**James River  
Equipment**

OIL ANALYSIS REPORT

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

Machine Id  
**JOHN DEERE 160G 1FF160GXHNF058576**

Component  
**Left Final Drive**

Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0222456</b>	JR0186503	---
Sample Date		Client Info		<b>25 Jun 2024</b>	23 Oct 2023	---
Machine Age	hrs	Client Info		<b>979</b>	554	---
Oil Age	hrs	Client Info		<b>979</b>	554	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

**WEAR**

All component wear rates are normal.

PQ		ASTM D8184	>1250	<b>74</b>	90	---
Iron	ppm	ASTM D5185m	>750	<b>135</b>	120	---
Chromium	ppm	ASTM D5185m	>9	<b>4</b>	3	---
Nickel	ppm	ASTM D5185m	>10	<b>1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>40	<b>4</b>	2	---
Lead	ppm	ASTM D5185m	>15	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>40	<b>1</b>	<1	---
Tin	ppm	ASTM D5185m	>10	<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**

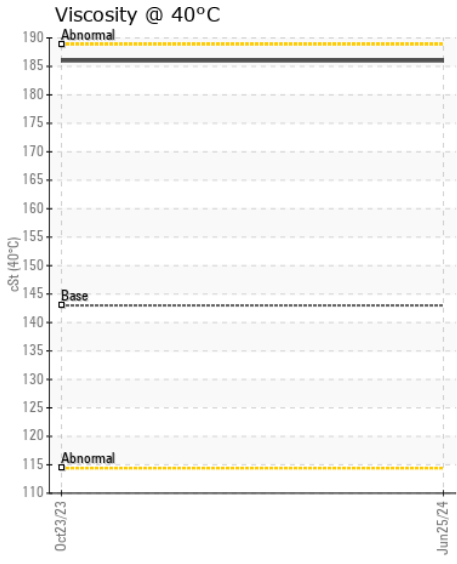
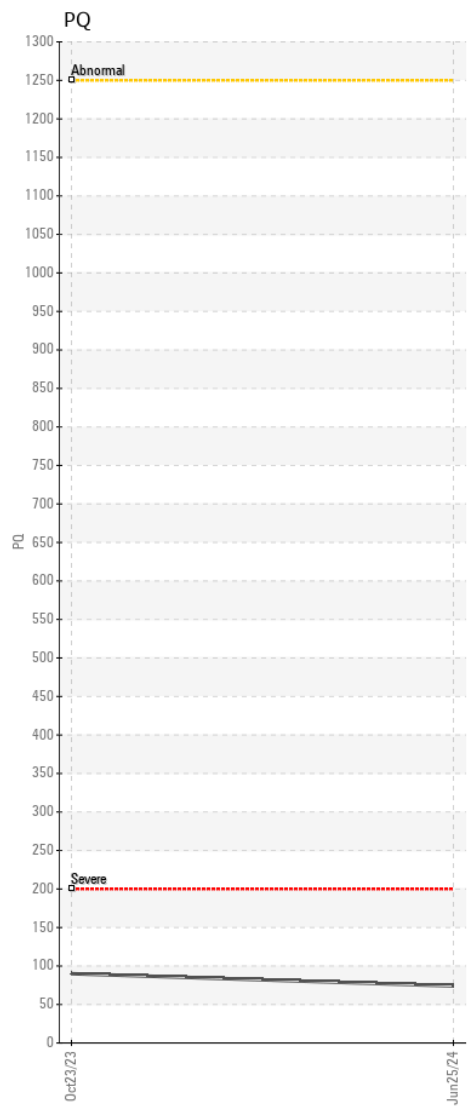
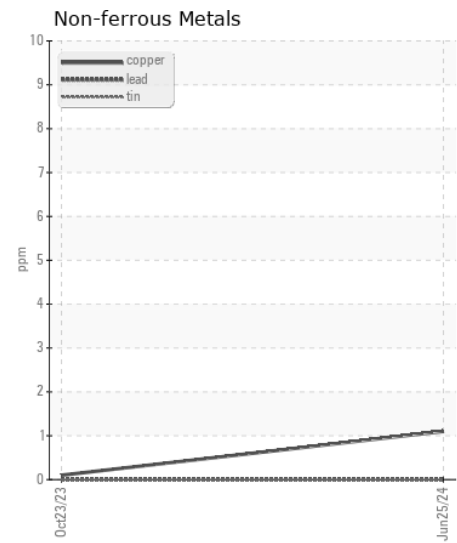
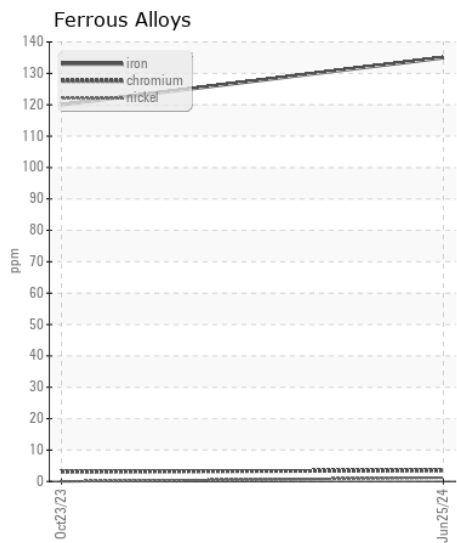
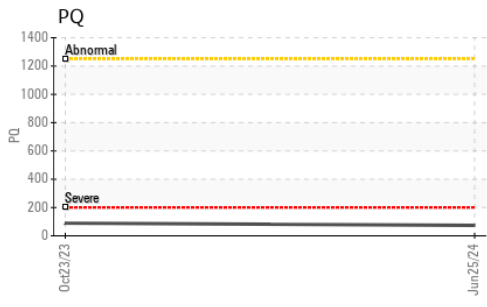
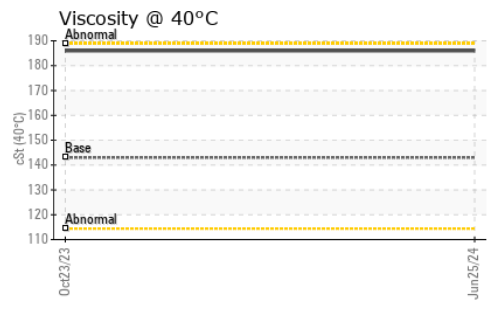
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>29</b>	27	---
Potassium	ppm	ASTM D5185m	>20	<b>6</b>	0	---
Water		WC Method	>0.075	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>MODER</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	>0.075	<b>NEG</b>	NEG	---

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m	>170	<b>2</b>	0	---
Boron	ppm	ASTM D5185m	400	<b>50</b>	60	---
Barium	ppm	ASTM D5185m	200	<b>6</b>	8	---
Molybdenum	ppm	ASTM D5185m	12	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m		<b>12</b>	10	---
Magnesium	ppm	ASTM D5185m	12	<b>2</b>	0	---
Calcium	ppm	ASTM D5185m	150	<b>13</b>	13	---
Phosphorus	ppm	ASTM D5185m	1650	<b>519</b>	531	---
Zinc	ppm	ASTM D5185m	125	<b>19</b>	26	---
Sulfur	ppm	ASTM D5185m	22500	<b>18800</b>	14674	---
Visc @ 40°C	cSt	ASTM D445	143	<b>186</b>	186	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0222456 **Received** : 28 Jun 2024  
**Lab Number** : 06223716 **Tested** : 01 Jul 2024  
**Unique Number** : 11101913 **Diagnosed** : 01 Jul 2024 - Don Baldridge  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - GARNER**  
 4161 AUBURN CHURCH RD  
 GARNER, NC  
 US 27529  
 Contact: RALEIGH SHOP

To discuss this sample report, contact Customer Service at 1-800-237-1369.

sean.betts@jamesriverequipment.com; catherine.anastasio@wearcheck.com

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (919)614-2260

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (919)779-5432