



Machine Id  
**JOHN DEERE 470G 1FF470GXJJF235253**

Component  
**Left Swing Drive**

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

### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### WEAR

Gear wear is indicated. All other component wear rates are normal.

### CONTAMINATION

Elemental level of silicon (Si) above normal.

### FLUID CONDITION

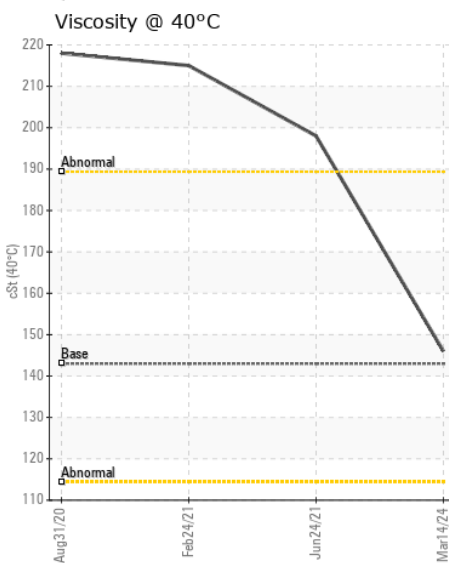
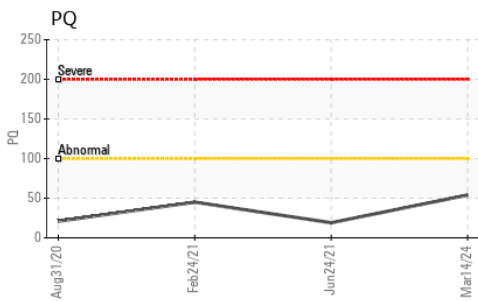
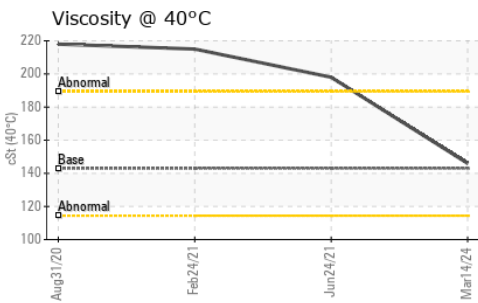
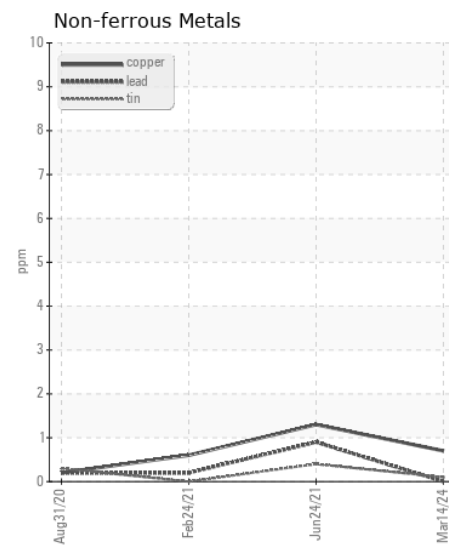
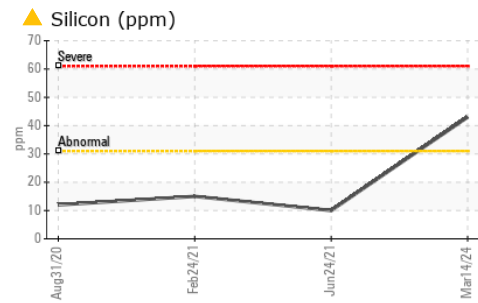
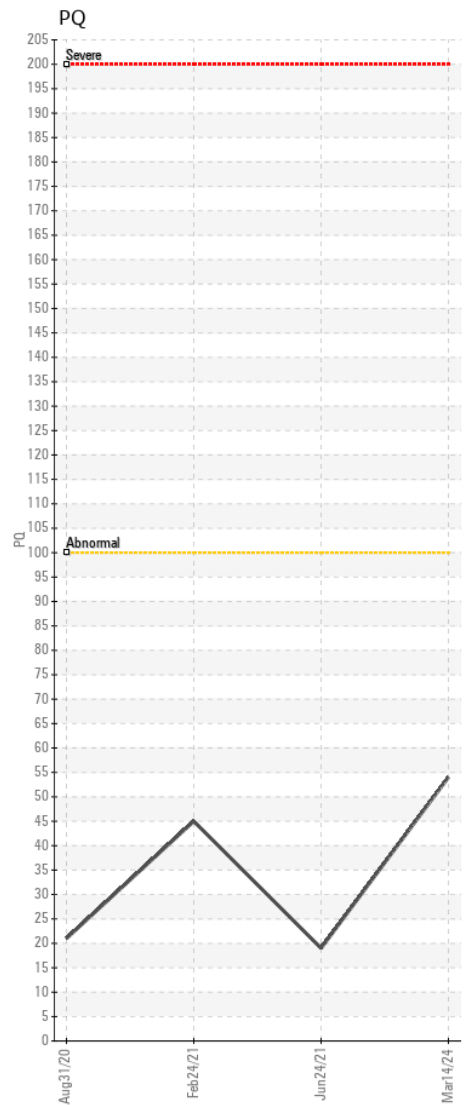
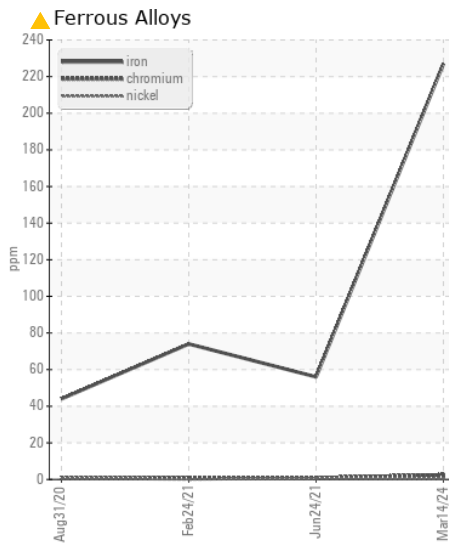
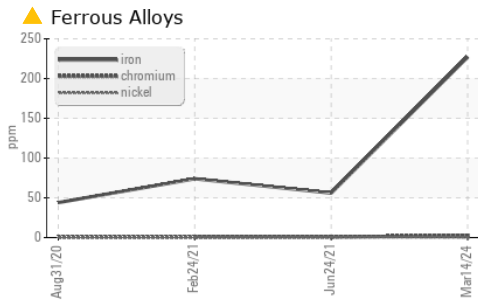
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0204153</b>	JR0087269	JR0079681
Sample Date		Client Info		<b>14 Mar 2024</b>	24 Jun 2021	24 Feb 2021
Machine Age	hrs	Client Info		<b>6231</b>	0	1977
Oil Age	hrs	Client Info		<b>4254</b>	500	0
Filter Age	hrs	Client Info		<b>0</b>	500	0
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL

PQ		ASTM D8184		<b>54</b>	19	45
Iron	ppm	ASTM D5185m	>151	<b>▲ 227</b>	56	74
Chromium	ppm	ASTM D5185m	>11	<b>2</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>21	<b>4</b>	<1	0
Lead	ppm	ASTM D5185m	>51	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>51	<b>&lt;1</b>	1	<1
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

Silicon	ppm	ASTM D5185m	>31	<b>▲ 43</b>	10	15
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	3	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	<b>▲ MODER</b>	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

Sodium	ppm	ASTM D5185m	>170	<b>0</b>	2	<1
Boron	ppm	ASTM D5185m	400	<b>45</b>	70	192
Barium	ppm	ASTM D5185m	200	<b>0</b>	0	1
Molybdenum	ppm	ASTM D5185m	12	<b>&lt;1</b>	1	2
Manganese	ppm	ASTM D5185m		<b>3</b>	1	1
Magnesium	ppm	ASTM D5185m	12	<b>2</b>	3	2
Calcium	ppm	ASTM D5185m	150	<b>20</b>	39	84
Phosphorus	ppm	ASTM D5185m	1650	<b>505</b>	867	1145
Zinc	ppm	ASTM D5185m	125	<b>7</b>	149	20
Sulfur	ppm	ASTM D5185m	22500	<b>21501</b>	17243	19325
Visc @ 40°C	cSt	ASTM D445	143	<b>146</b>	198	215



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0204153 **Received** : 19 Mar 2024  
**Lab Number** : 06122713 **Tested** : 20 Mar 2024  
**Unique Number** : 10936864 **Diagnosed** : 21 Mar 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - CHARLOTTE**  
 9550 STATESVILLE ROAD  
 CHARLOTTE, NC  
 US 28269

Contact: CHARLOTTE SHOP  
 myoung@jamesriverequipment.com

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)

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