



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

Machine Id  
**JOHN DEERE 648LII F711103**  
 Component  
**Front Differential**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0166837</b>	JR0166838	---
Sample Date		Client Info		<b>17 Jun 2024</b>	17 Jun 2024	---
Machine Age	hrs	Client Info		<b>2598</b>	2598	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>33</b>	39	---
Iron	ppm	ASTM D5185m	>500	<b>115</b>	147	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	3	---
Lead	ppm	ASTM D5185m	>25	<b>4</b>	5	---
Copper	ppm	ASTM D5185m	>100	<b>27</b>	26	---
Tin	ppm	ASTM D5185m	>10	<b>2</b>	2	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

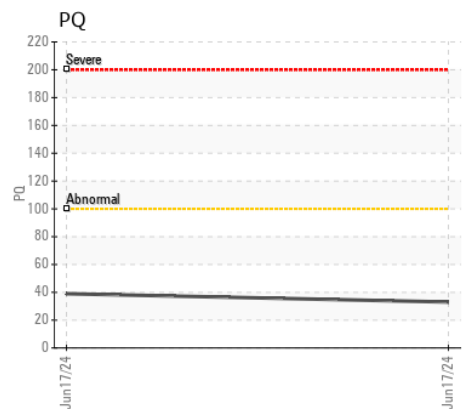
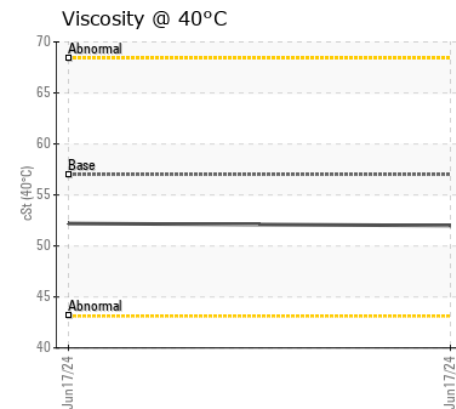
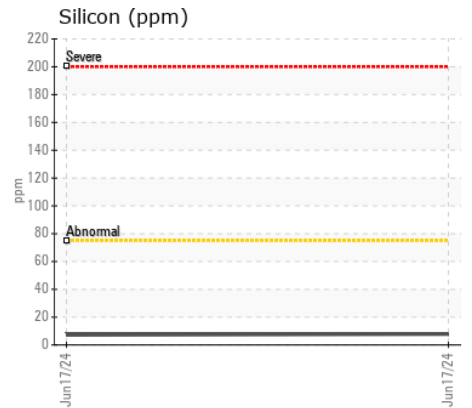
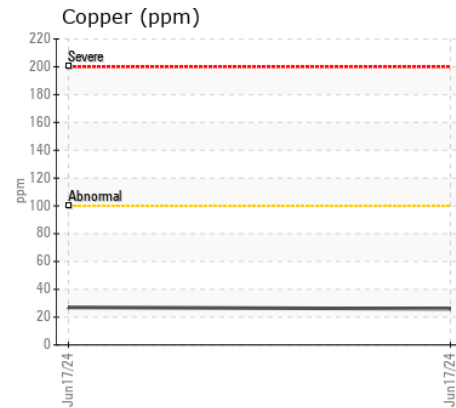
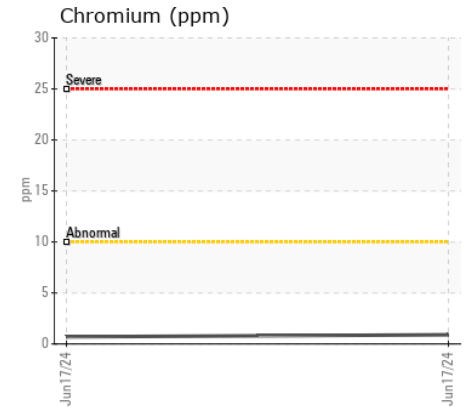
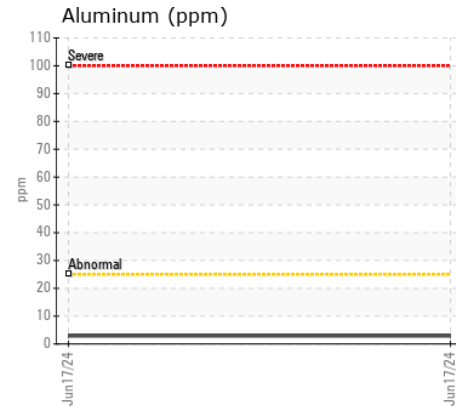
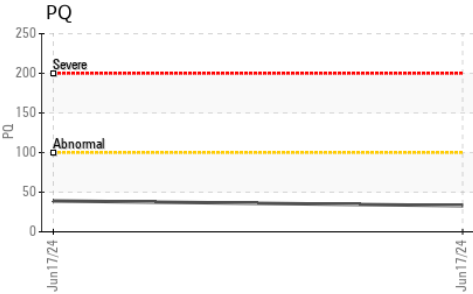
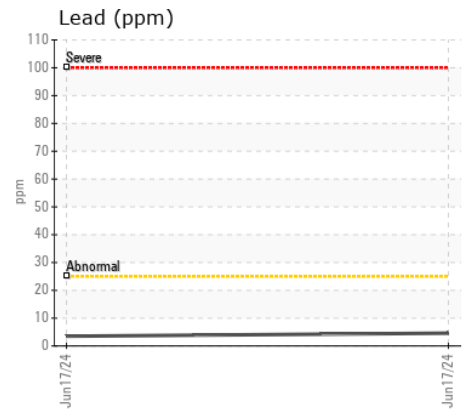
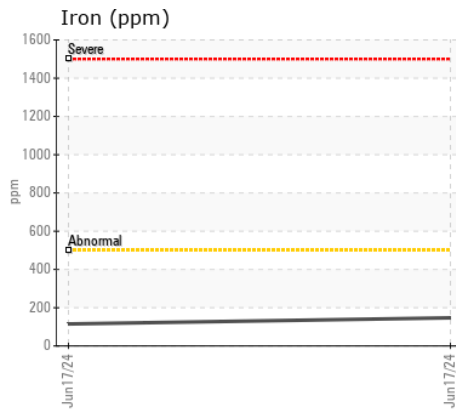
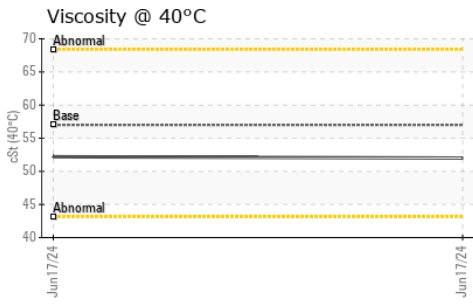
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>7</b>	8	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	3	---
Water		WC Method	>.2	<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	>.2	<b>NEG</b>	NEG	---

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	2	---
Boron	ppm	ASTM D5185m	6	<b>2</b>	2	---
Barium	ppm	ASTM D5185m	0	<b>3</b>	3	---
Molybdenum	ppm	ASTM D5185m	0	<b>1</b>	2	---
Manganese	ppm	ASTM D5185m		<b>3</b>	3	---
Magnesium	ppm	ASTM D5185m	145	<b>94</b>	77	---
Calcium	ppm	ASTM D5185m	3570	<b>3398</b>	3287	---
Phosphorus	ppm	ASTM D5185m	1290	<b>1027</b>	1000	---
Zinc	ppm	ASTM D5185m	1640	<b>1204</b>	1169	---
Sulfur	ppm	ASTM D5185m		<b>3583</b>	3546	---
Visc @ 40°C	cSt	ASTM D445	57.0	<b>52.0</b>	52.2	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : JR0166837

**Lab Number** : 06218492

**Unique Number** : 11096689

**Test Package** : MOBCE ( Additional Tests: PQ )

**Received** : 24 Jun 2024

**Tested** : 25 Jun 2024

**Diagnosed** : 25 Jun 2024 - Wes Davis

**JRE - FISHERSVILLE**

98 EXPO ROAD

FISHERSVILLE, VA

US 22939

Contact: MIKE JENKINS

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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)