



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



Area

**[W65767]**

Machine Id

**JOHN DEERE 672GP 1DW672GPEMF710668**

Component

**Diesel Engine**

Fluid

**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: W65767 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0206731</b>	JR0170907	---
Sample Date		Client Info		<b>09 Apr 2024</b>	12 Jul 2023	---
Machine Age	hrs	Client Info		<b>1980</b>	1484	---
Oil Age	hrs	Client Info		<b>496</b>	1484	---
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.

Iron	ppm	ASTM D5185m	>51	<b>13</b>	16	---
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>31	<b>5</b>	4	---
Lead	ppm	ASTM D5185m	>26	<b>0</b>	1	---
Copper	ppm	ASTM D5185m	>26	<b>3</b>	3	---
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

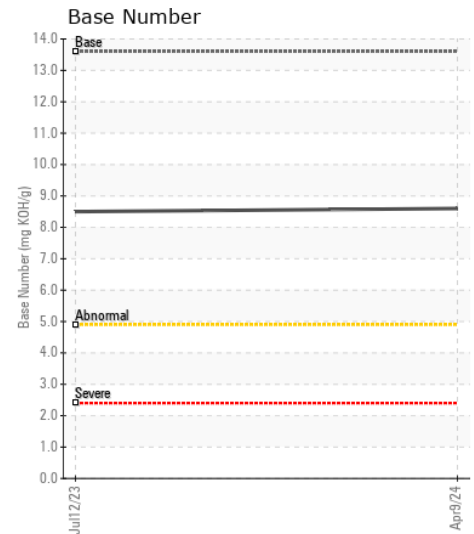
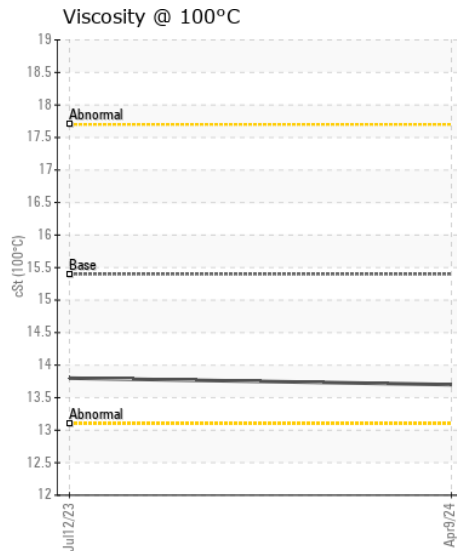
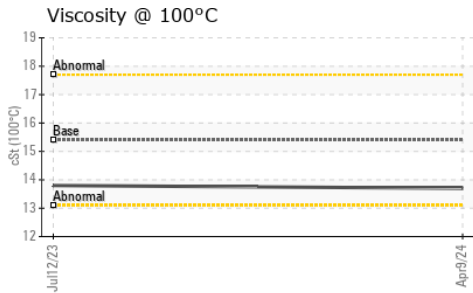
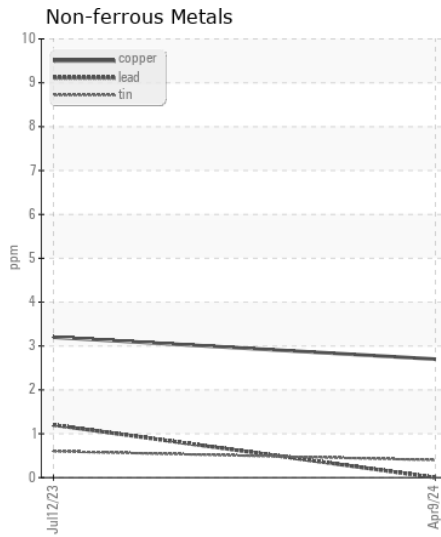
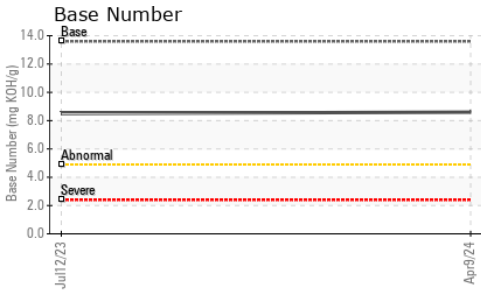
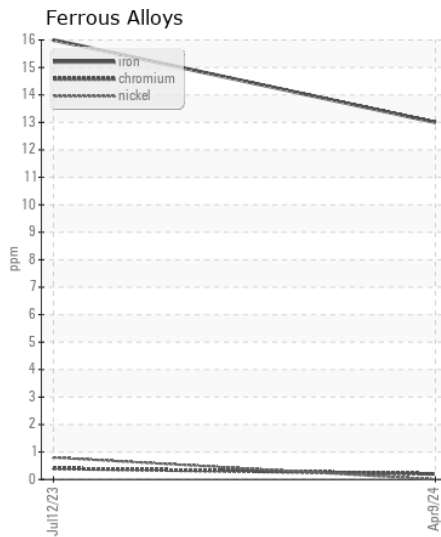
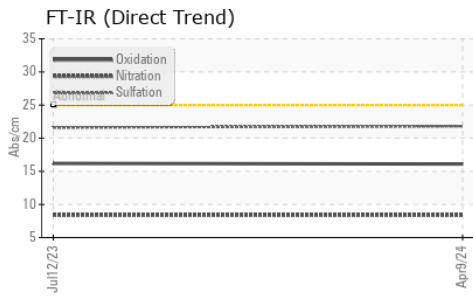
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>6</b>	5	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	3	---
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.21	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.4</b>	8.4	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.8</b>	21.6	---
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	>0.21	<b>NEG</b>	NEG	---

### FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>31	<b>2</b>	3	---
Boron	ppm	ASTM D5185m		<b>231</b>	258	---
Barium	ppm	ASTM D5185m		<b>2</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>248</b>	249	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>798</b>	810	---
Calcium	ppm	ASTM D5185m		<b>1470</b>	1547	---
Phosphorus	ppm	ASTM D5185m		<b>942</b>	893	---
Zinc	ppm	ASTM D5185m		<b>1120</b>	1123	---
Sulfur	ppm	ASTM D5185m		<b>3515</b>	3537	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.1</b>	16.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>8.6</b>	8.5	---
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.7</b>	13.8	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0206731 **Received** : 12 Apr 2024  
**Lab Number** : 06147193 **Tested** : 15 Apr 2024  
**Unique Number** : 10977271 **Diagnosed** : 16 Apr 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: TBN )

**CARLTON'S BACKHOE**  
 9550 STATESVILLE ROAD  
 CHARLOTTE, NC  
 US 28269  
 Contact: LEO

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)

T: (704)547-0211

F: