



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

Area

**[05W45990]**

Machine Id

**JOHN DEERE 624L 1DW624LTLLF708606**

Component

**Hydraulic System**

Fluid

**JOHN DEERE HYDRAU (30 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0211030</b>	JR0203332	JR0195866
Sample Date		Client Info		<b>20 Apr 2024</b>	12 Feb 2024	01 Dec 2023
Machine Age	hrs	Client Info		<b>8049</b>	7517	7041
Oil Age	hrs	Client Info		<b>4000</b>	3500	3041
Filter Age	hrs	Client Info		<b>4000</b>	3500	3041
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	ATTENTION

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	<b>9</b>	6	4
Chromium	ppm	ASTM D5185m	>10	<b>3</b>	1	1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>2</b>	1	<1
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>75	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	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

### CONTAMINATION

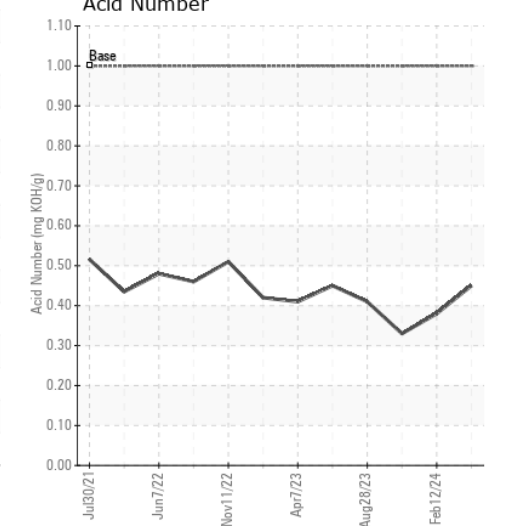
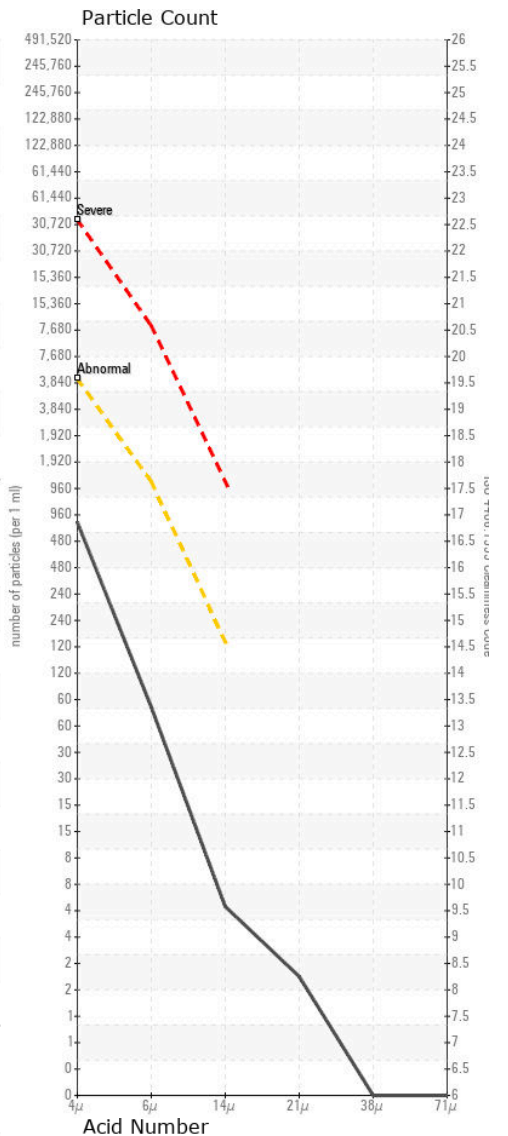
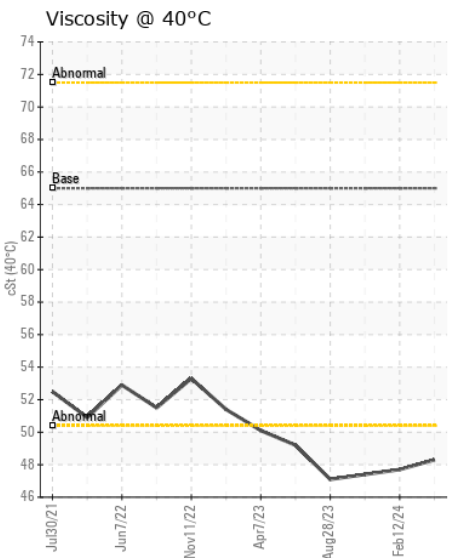
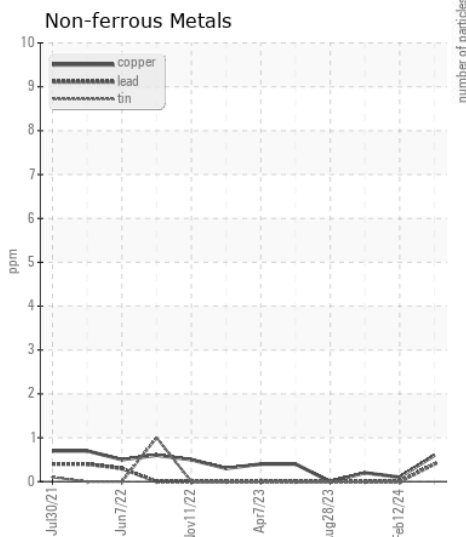
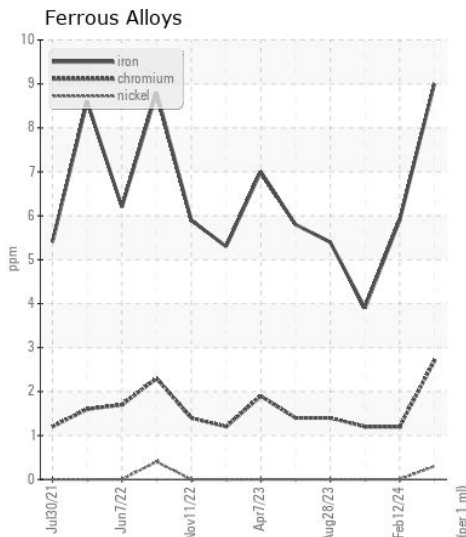
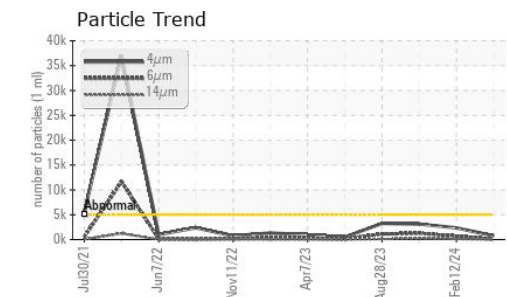
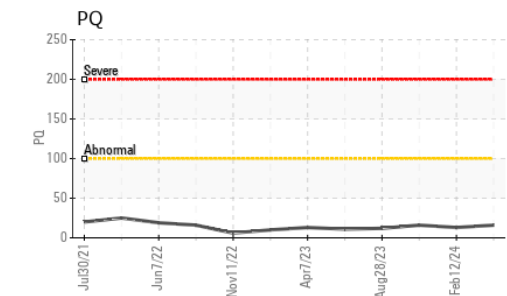
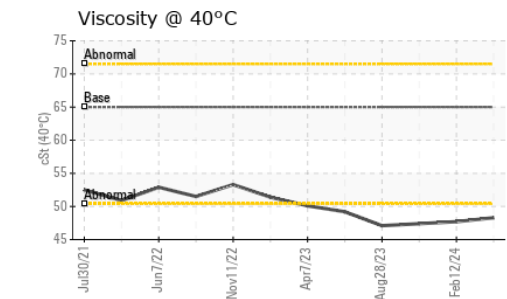
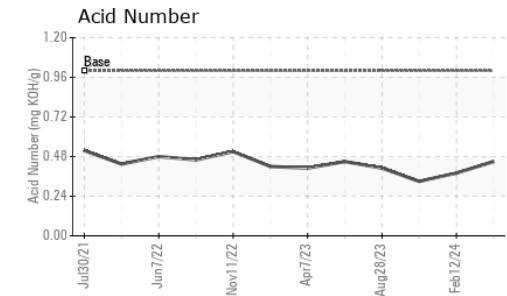
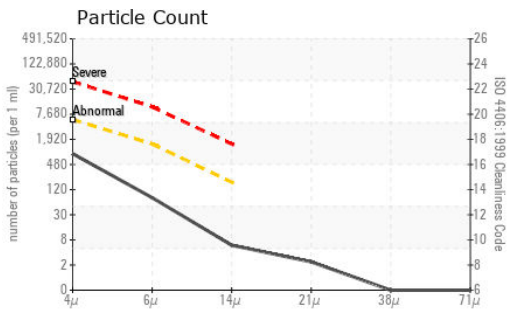
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>20	<b>2</b>	<1	1
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>765</b>	2354	3129
Particles >6µm		ASTM D7647	>1300	<b>68</b>	680	1253
Particles >14µm		ASTM D7647	>160	<b>5</b>	110	172
Particles >21µm		ASTM D7647	>40	<b>2</b>	41	46
Particles >38µm		ASTM D7647	>10	<b>0</b>	3	1
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>17/13/10</b>	18/17/14	19/17/15
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	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

### FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	0	1
Boron	ppm	ASTM D5185m		<b>&lt;1</b>	1	<1
Barium	ppm	ASTM D5185m		<b>0</b>	2	0
Molybdenum	ppm	ASTM D5185m		<b>3</b>	2	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>14</b>	11	10
Calcium	ppm	ASTM D5185m	87	<b>206</b>	144	98
Phosphorus	ppm	ASTM D5185m	727	<b>516</b>	407	452
Zinc	ppm	ASTM D5185m	900	<b>605</b>	491	557
Sulfur	ppm	ASTM D5185m	1500	<b>1352</b>	1178	1234
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.45</b>	0.38	0.33
Visc @ 40°C	cSt	ASTM D445	65	<b>48.3</b>	47.7	47.4



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0211030 **Received** : 23 Apr 2024  
**Lab Number** : 06158405 **Tested** : 24 Apr 2024  
**Unique Number** : 10993828 **Diagnosed** : 24 Apr 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

**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

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)