



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

Area

**[05W47444]**

Machine Id

**JOHN DEERE 245G 1FF245GXHMF802209**

Component

**Hydraulic System**

Fluid

**JOHN DEERE ZINC-FREE HYDRAULIC OIL 46 (35 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0218637</b>	JR0214325	JR0203247
Sample Date		Client Info		<b>27 Jun 2024</b>	02 May 2024	19 Feb 2024
Machine Age	hrs	Client Info		<b>3804</b>	3473	3096
Oil Age	hrs	Client Info		<b>3804</b>	3473	3096
Filter Age	hrs	Client Info		<b>950</b>	0	242
Oil Changed		Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Filter Changed		Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184	>50	<b>16</b>	15	10
Iron	ppm	ASTM D5185m	>32	<b>17</b>	13	12
Chromium	ppm	ASTM D5185m	>9	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>9	<b>2</b>	1	1
Lead	ppm	ASTM D5185m	>28	<b>2</b>	0	<1
Copper	ppm	ASTM D5185m	>50	<b>6</b>	4	4
Tin	ppm	ASTM D5185m	>5	<b>1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

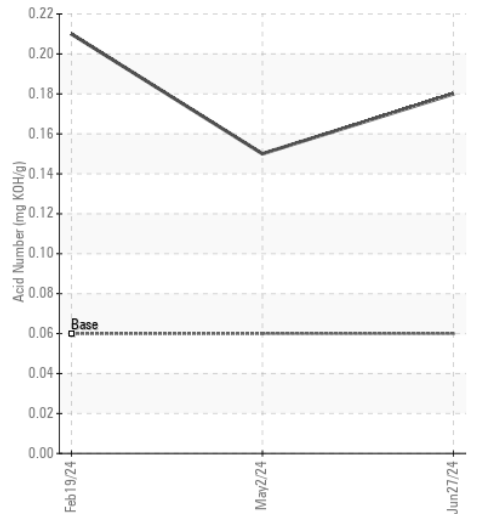
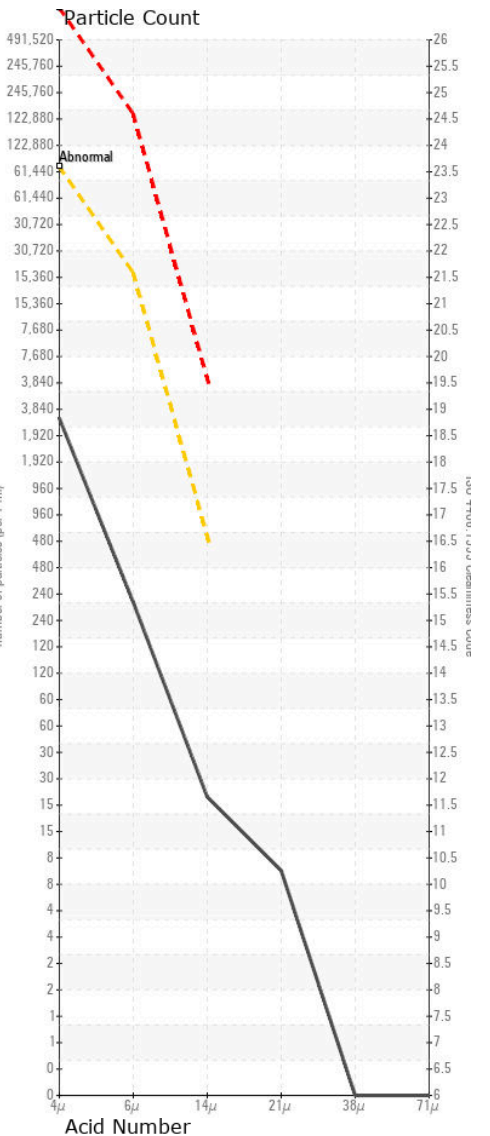
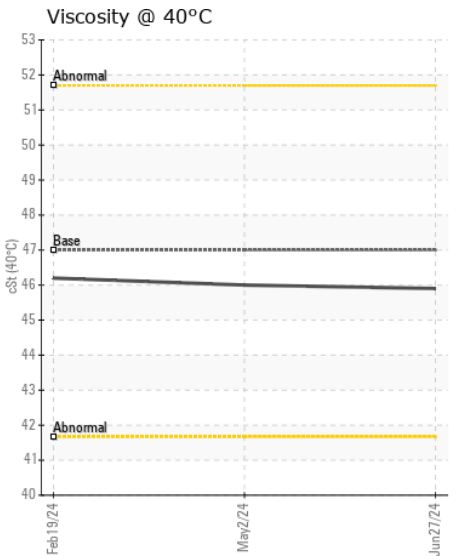
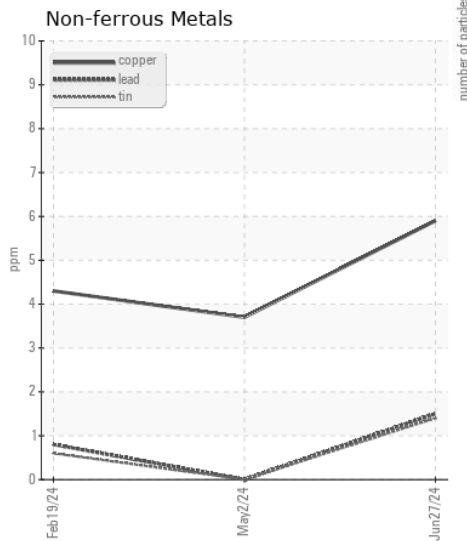
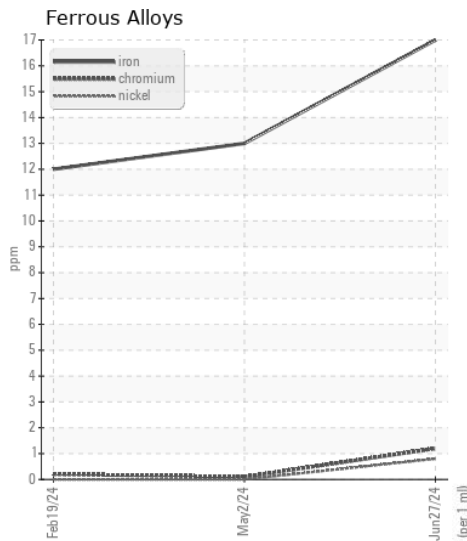
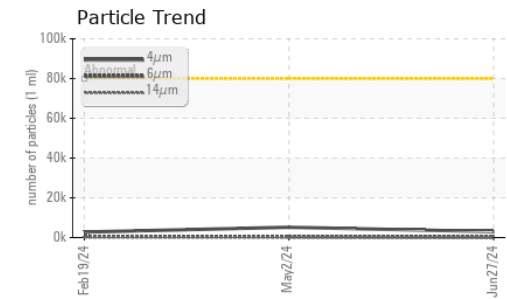
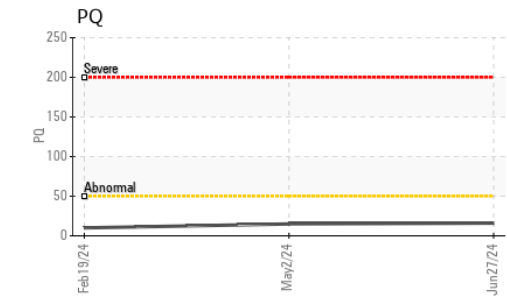
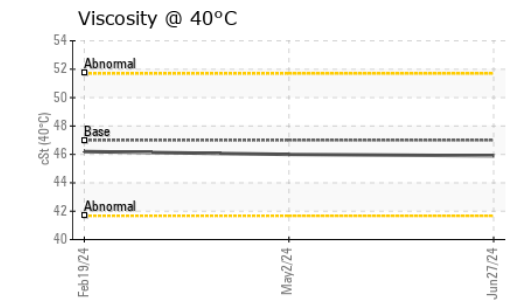
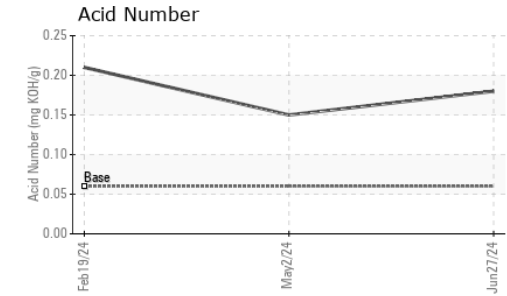
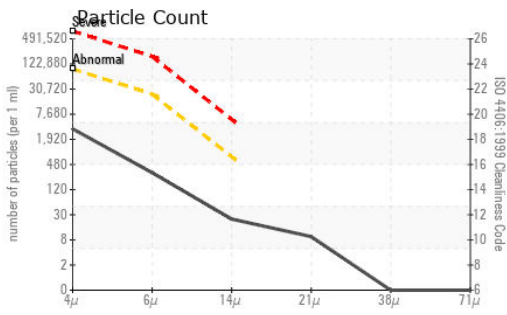
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>11	<b>6</b>	3	2
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	2
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>80000	<b>2980</b>	5204	2764
Particles >6µm		ASTM D7647	>20000	<b>268</b>	494	591
Particles >14µm		ASTM D7647	>640	<b>21</b>	52	62
Particles >21µm		ASTM D7647	>160	<b>8</b>	13	16
Particles >38µm		ASTM D7647	>40	<b>0</b>	0	0
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	<b>19/15/12</b>	20/16/13	19/16/13
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	LIGHT	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	>0.075	<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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m	>21	<b>0</b>	2	0
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>1</b>	0	3
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>3</b>	0	1
Calcium	ppm	ASTM D5185m		<b>73</b>	15	27
Phosphorus	ppm	ASTM D5185m		<b>407</b>	434	433
Zinc	ppm	ASTM D5185m		<b>49</b>	35	43
Sulfur	ppm	ASTM D5185m		<b>206</b>	214	138
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	<b>0.18</b>	0.15	0.21
Visc @ 40°C	cSt	ASTM D445	47	<b>45.9</b>	46.0	46.2



Certificate L2367

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

Sample No. : JR0218637

Lab Number : 06223420

Unique Number : 11101617

Test Package : CONST ( Additional Tests: PQ )

Received : 28 Jun 2024

Tested : 01 Jul 2024

Diagnosed : 01 Jul 2024 - Wes Davis

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)

JRE - MANASSAS PARK

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