



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



Machine Id  
**JOHN DEERE 544K 1DW544KPPBD637550**  
Component  
**Hydraulic System**  
Fluid  
**JOHN DEERE HYDRAU (96 QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0218215</b>	JR0116925	---
Sample Date		Client Info		<b>19 Jun 2024</b>	01 Apr 2022	---
Machine Age	hrs	Client Info		<b>11823</b>	9803	---
Oil Age	hrs	Client Info		<b>11823</b>	9803	---
Filter Age	hrs	Client Info		<b>0</b>	9803	---
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	---
Filter Changed		Client Info		<b>Not Changd</b>	Not Changd	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

All component wear rates are normal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184	>50	<b>23</b>	21	---
Iron	ppm	ASTM D5185m	>71	<b>20</b>	8	---
Chromium	ppm	ASTM D5185m	>11	<b>3</b>	1	---
Nickel	ppm	ASTM D5185m	>6	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>11	<b>3</b>	2	---
Lead	ppm	ASTM D5185m	>13	<b>0</b>	<1	---
Copper	ppm	ASTM D5185m	>21	<b>2</b>	1	---
Tin	ppm	ASTM D5185m	>5	<b>0</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

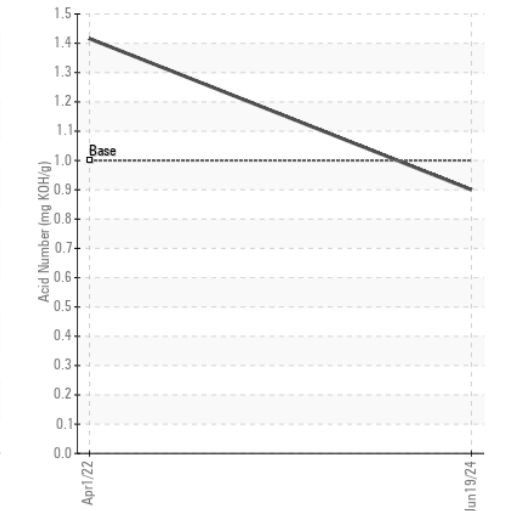
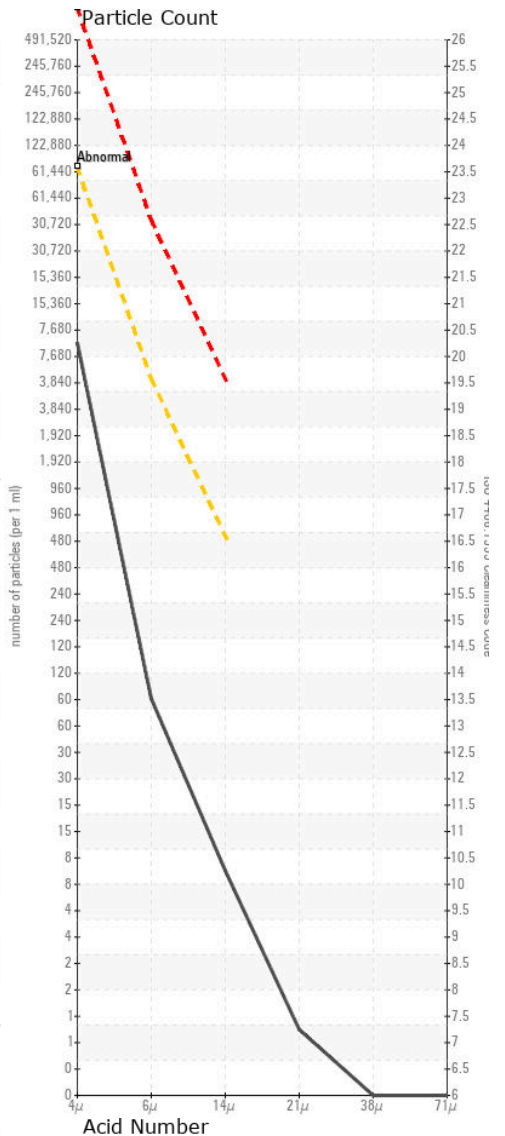
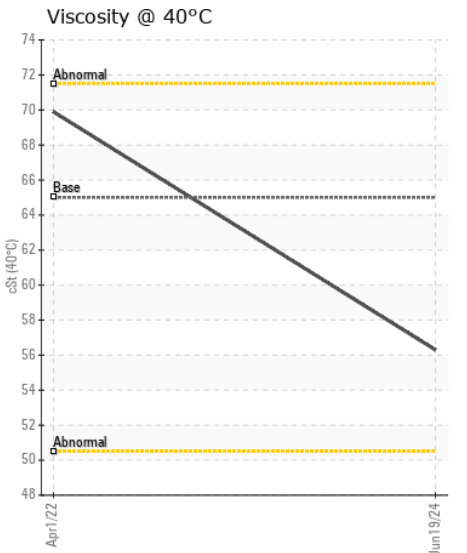
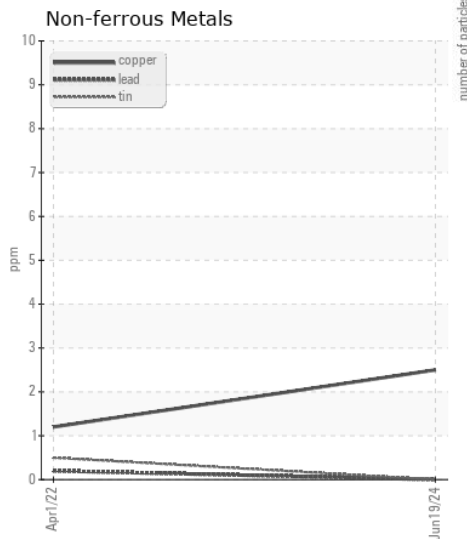
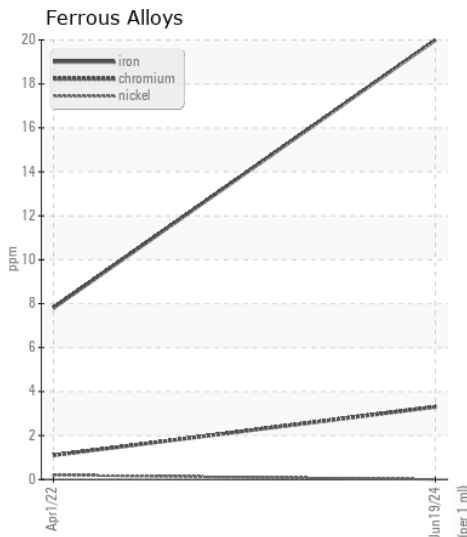
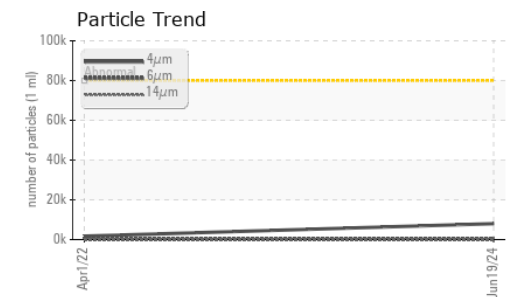
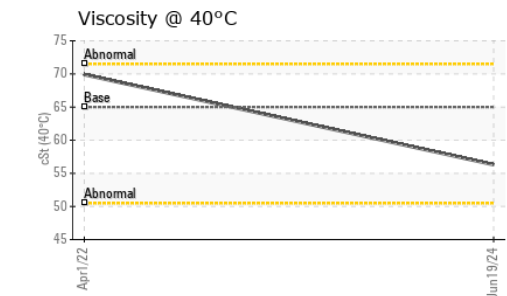
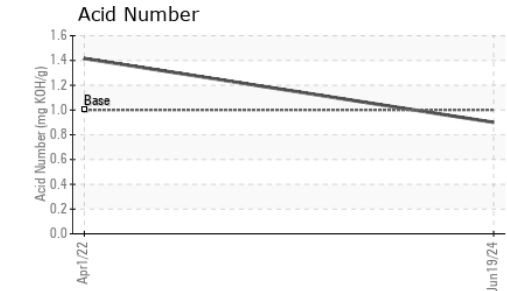
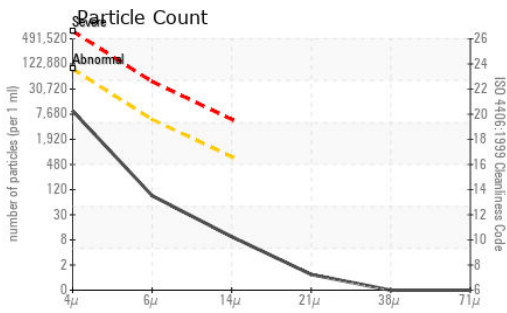
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>24	<b>8</b>	6	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	---
Water		WC Method	>0.075	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647	>80000	<b>8015</b>	1730	---
Particles >6µm		ASTM D7647	>5000	<b>76</b>	64	---
Particles >14µm		ASTM D7647	>640	<b>8</b>	7	---
Particles >21µm		ASTM D7647	>160	<b>1</b>	3	---
Particles >38µm		ASTM D7647	>40	<b>0</b>	0	---
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>23/19/16	<b>20/13/10</b>	18/13/10	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	VLITE	---
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	>0.075	<b>NEG</b>	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	>21	<b>5</b>	4	---
Boron	ppm	ASTM D5185m		<b>11</b>	15	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>7</b>	10	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>103</b>	149	---
Calcium	ppm	ASTM D5185m	87	<b>1321</b>	1630	---
Phosphorus	ppm	ASTM D5185m	727	<b>680</b>	780	---
Zinc	ppm	ASTM D5185m	900	<b>699</b>	915	---
Sulfur	ppm	ASTM D5185m	1500	<b>3122</b>	2680	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.90</b>	1.416	---
Visc @ 40°C	cSt	ASTM D445	65	<b>56.3</b>	69.9	---



Certificate L2367

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

Sample No. : JR0218215

Lab Number : 06218044

Unique Number : 11096241

Test Package : CONST ( Additional Tests: PQ )

Received : 24 Jun 2024

Tested : 25 Jun 2024

Diagnosed : 25 Jun 2024 - Don Baldrige

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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