



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

Machine Id  
**JOHN DEERE 544L 1DW544LZPMF709516**

Component  
**Hydraulic System**

Fluid  
**AW HYDRAULIC OIL ISO 46 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0216560</b>	JR0158726	JR0129444
Sample Date		Client Info		<b>27 Jun 2024</b>	13 Mar 2024	05 Aug 2022
Machine Age	hrs	Client Info		<b>7867</b>	7068	2621
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>17</b>	15	19
Iron	ppm	ASTM D5185m	>20	<b>10</b>	9	6
Chromium	ppm	ASTM D5185m	>10	<b>7</b>	4	2
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	1
Aluminum	ppm	ASTM D5185m	>10	<b>2</b>	<1	0
Lead	ppm	ASTM D5185m	>10	<b>1</b>	0	<1
Copper	ppm	ASTM D5185m	>75	<b>5</b>	4	3
Tin	ppm	ASTM D5185m	>10	<b>&lt;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

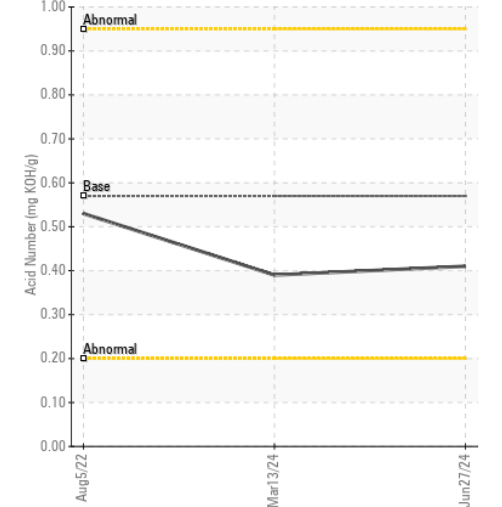
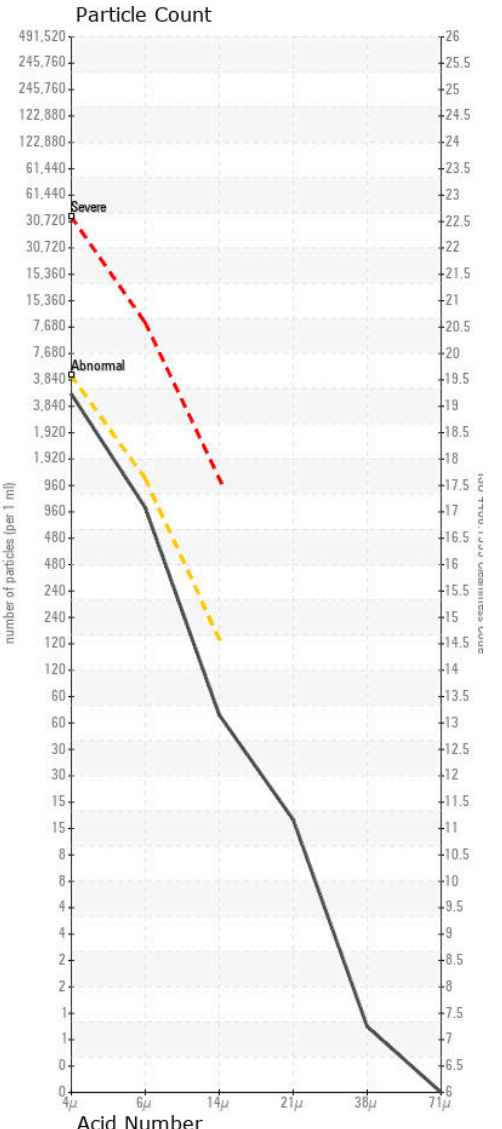
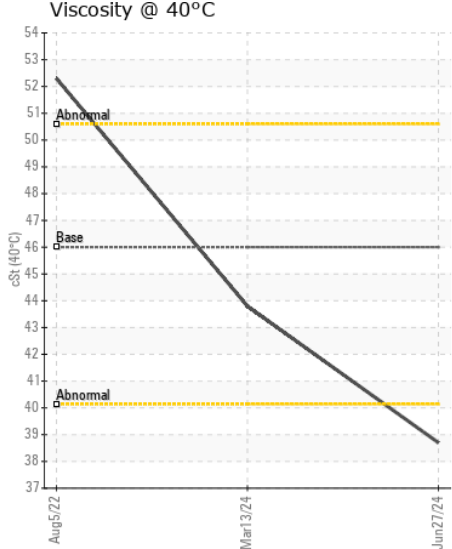
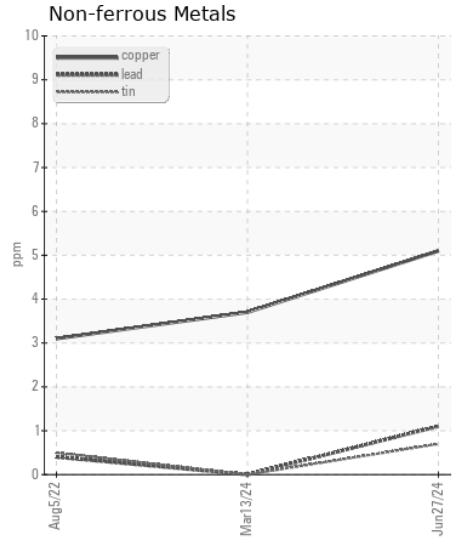
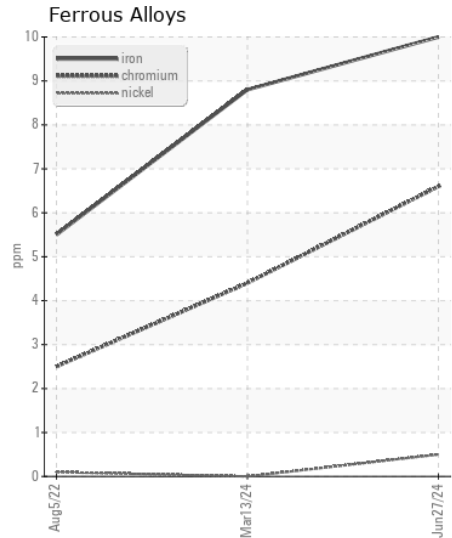
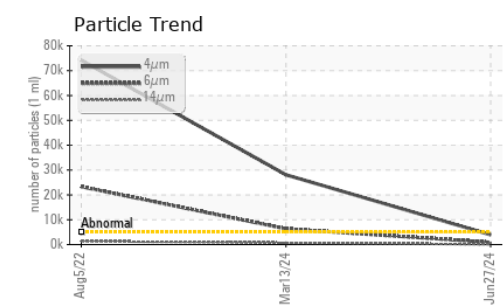
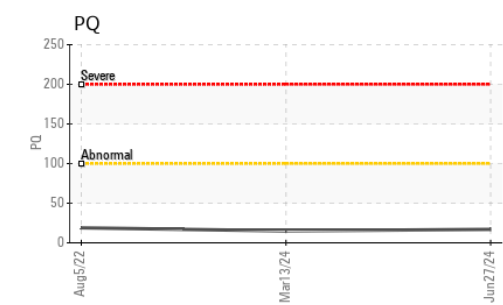
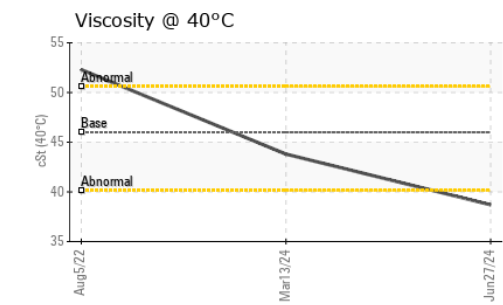
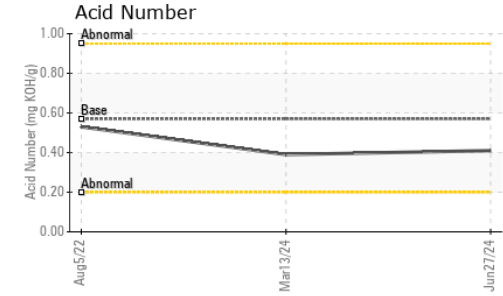
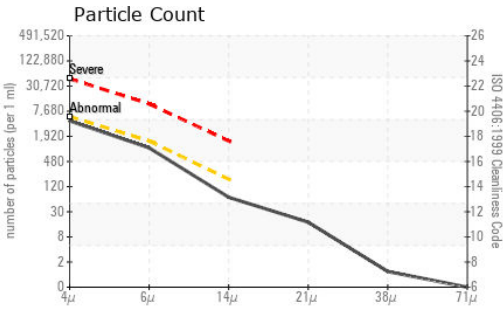
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>3</b>	2	<1
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	2	4
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>3934</b>	▲ 28085	▲ 74218
Particles >6µm		ASTM D7647	>1300	<b>890</b>	▲ 6325	▲ 23296
Particles >14µm		ASTM D7647	>160	<b>59</b>	▲ 685	▲ 1339
Particles >21µm		ASTM D7647	>40	<b>15</b>	▲ 217	▲ 208
Particles >38µm		ASTM D7647	>10	<b>1</b>	● 18	▲ 11
Particles >71µm		ASTM D7647	>3	<b>0</b>	2	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>19/17/13</b>	▲ 22/20/17	▲ 23/22/18
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	LIGHT
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>	2	2
Boron	ppm	ASTM D5185m	5	<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185m	5	<b>1</b>	0	0
Molybdenum	ppm	ASTM D5185m	5	<b>2</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m	25	<b>8</b>	1	2
Calcium	ppm	ASTM D5185m	200	<b>86</b>	86	86
Phosphorus	ppm	ASTM D5185m	300	<b>396</b>	418	532
Zinc	ppm	ASTM D5185m	370	<b>572</b>	539	728
Sulfur	ppm	ASTM D5185m	2500	<b>1596</b>	1717	1575
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	<b>0.41</b>	0.39	0.53
Visc @ 40°C	cSt	ASTM D445	46	<b>38.7</b>	43.8	52.3



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0216560 **Received** : 28 Jun 2024  
**Lab Number** : 06223430 **Tested** : 01 Jul 2024  
**Unique Number** : 11101627 **Diagnosed** : 01 Jul 2024 - Don Baldrige  
**Test Package** : MOBCE ( Additional Tests: PQ )

**JRE - FISHERSVILLE**  
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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)