



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

Machine Id  
**JOHN DEERE 844K 1DW844KXAA0633203**  
 Component  
**Front Differential**  
 Fluid  
**GEAR OIL SAE 80W90 (58 QTS)**

### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0213830</b>	JR0200922	JR0190760
Sample Date		Client Info		<b>13 Jun 2024</b>	29 Jan 2024	20 Nov 2023
Machine Age	hrs	Client Info		<b>28585</b>	26828	28585
Oil Age	hrs	Client Info		<b>28585</b>	25828	1
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL

### WEAR

Gear wear is indicated.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>89</b>	69	9
Iron	ppm	ASTM D5185m	>500	<b>▲ 860</b>	▲ 966	14
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	2	0
Nickel	ppm	ASTM D5185m	>10	<b>3</b>	2	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	2	0
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>100	<b>8</b>	5	<1
Tin	ppm	ASTM D5185m	>10	<b>0</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

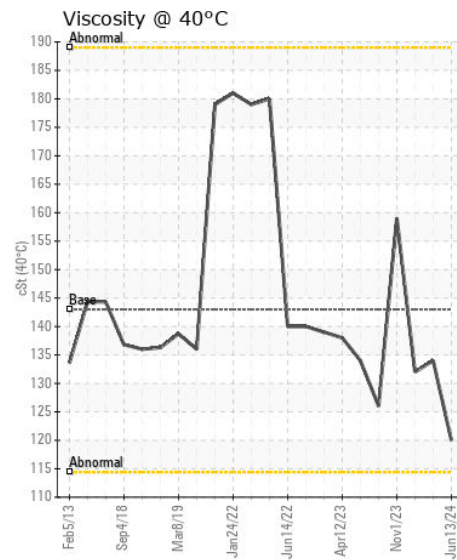
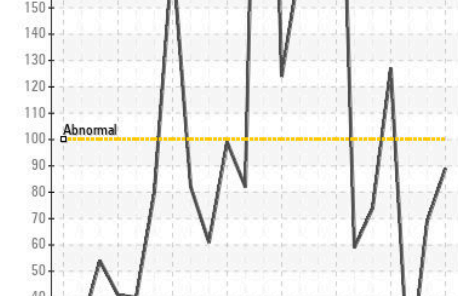
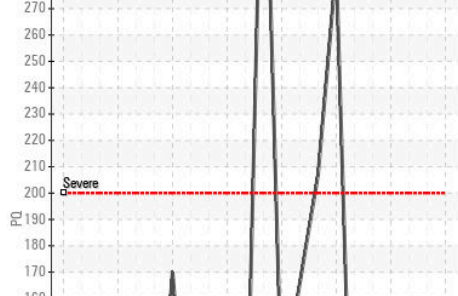
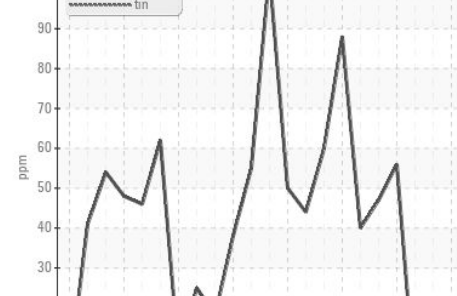
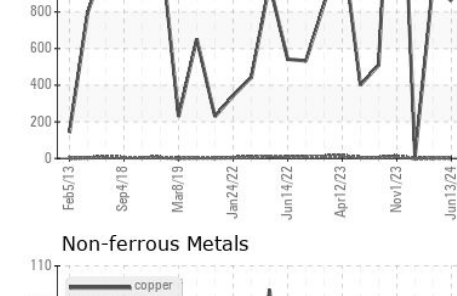
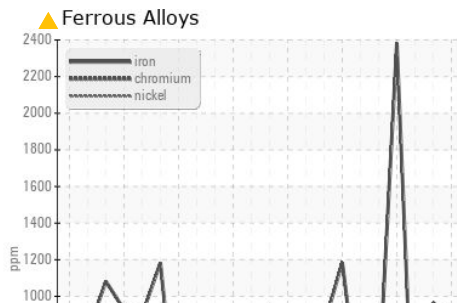
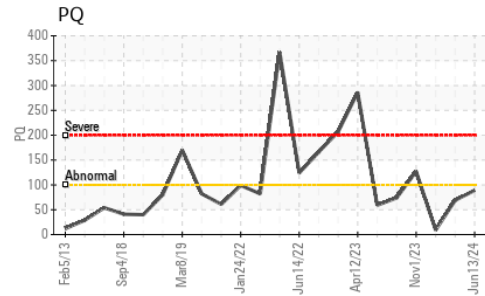
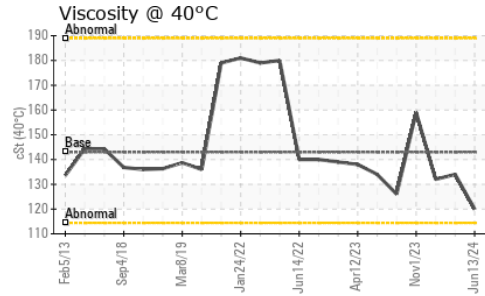
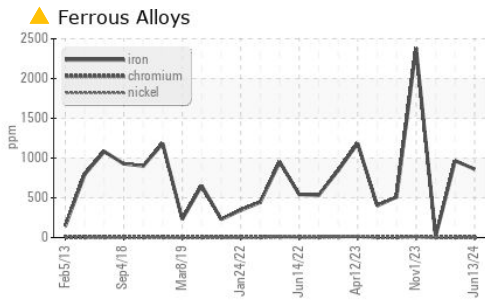
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>75	<b>10</b>	13	3
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	2	0
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
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	>.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m	>170	<b>18</b>	19	3
Boron	ppm	ASTM D5185m	400	<b>5</b>	6	1
Barium	ppm	ASTM D5185m	200	<b>&lt;1</b>	2	0
Molybdenum	ppm	ASTM D5185m	12	<b>1</b>	1	0
Manganese	ppm	ASTM D5185m		<b>8</b>	9	<1
Magnesium	ppm	ASTM D5185m	12	<b>8</b>	13	8
Calcium	ppm	ASTM D5185m	150	<b>191</b>	218	300
Phosphorus	ppm	ASTM D5185m	1650	<b>2059</b>	2144	2639
Zinc	ppm	ASTM D5185m	125	<b>147</b>	181	104
Sulfur	ppm	ASTM D5185m	22500	<b>28221</b>	28506	24836
Visc @ 40°C	cSt	ASTM D445	143	<b>120</b>	134	132



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0213830 **Received** : 17 Jun 2024  
**Lab Number** : 06212019 **Tested** : 18 Jun 2024  
**Unique Number** : 11084883 **Diagnosed** : 19 Jun 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - GREENVILLE**  
 3604 HIGHWAY 264 E  
 GREENVILLE, NC  
 US 27834-5800

Contact: GREENVILLE SHOP  
 christopher.martin@jamesriverequipment.com

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:  
F: