



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

Machine Id  
**JOHN DEERE 844K 1DW844KAJJF693325**  
 Component  
**Front Differential**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (--- GAL)**

### RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0179768</b>	JR0165456	JR0126209
Sample Date		Client Info		<b>16 May 2024</b>	13 Jun 2023	03 Oct 2022
Machine Age	hrs	Client Info		<b>14002</b>	11968	10832
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>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>MARGINAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>38</b>	28	16
Iron	ppm	ASTM D5185m	>500	<b>67</b>	102	75
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	4	1
Lead	ppm	ASTM D5185m	>25	<b>2</b>	9	7
Copper	ppm	ASTM D5185m	>100	<b>24</b>	45	37
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	4	3
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

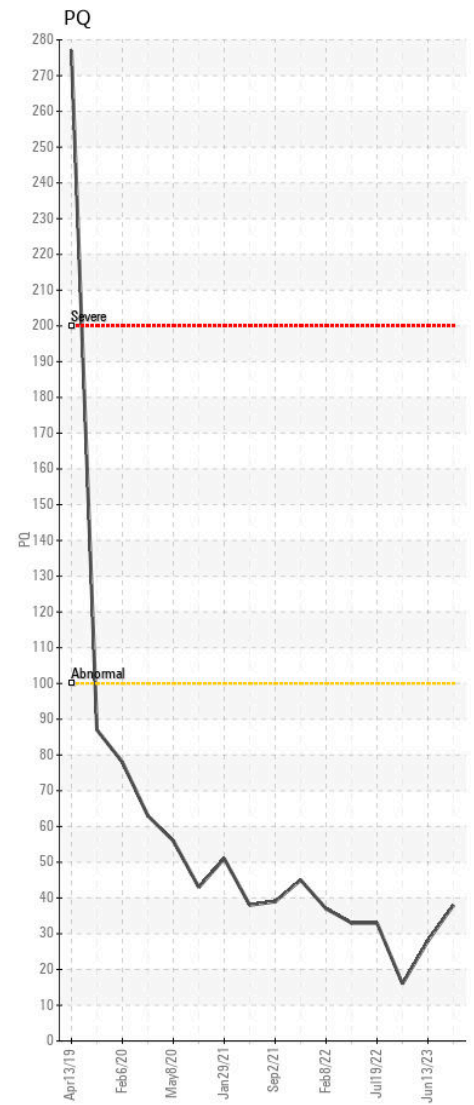
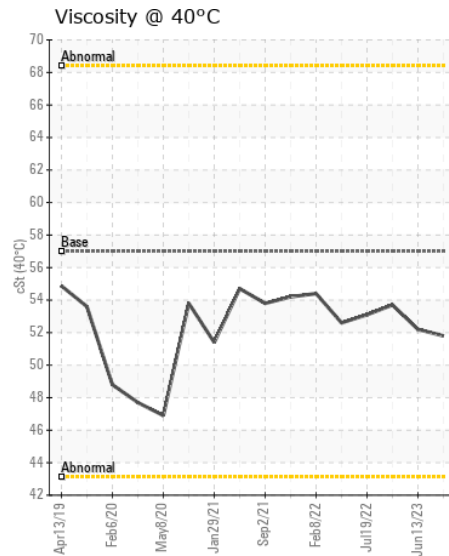
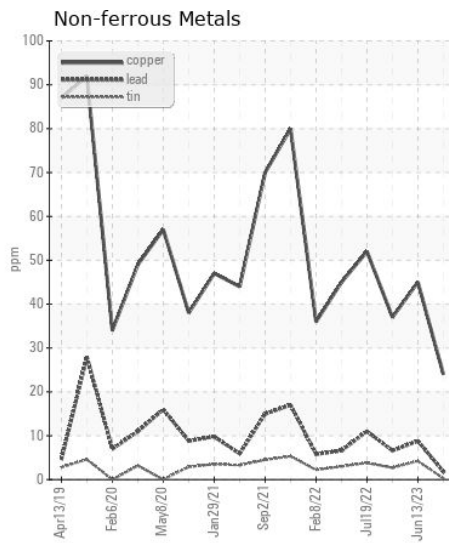
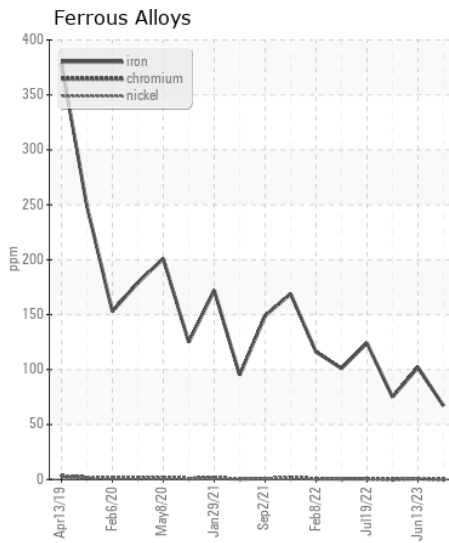
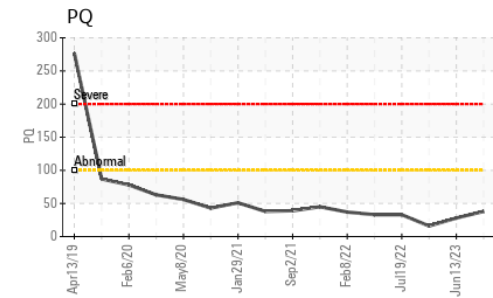
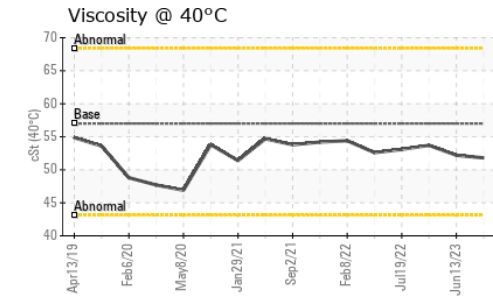
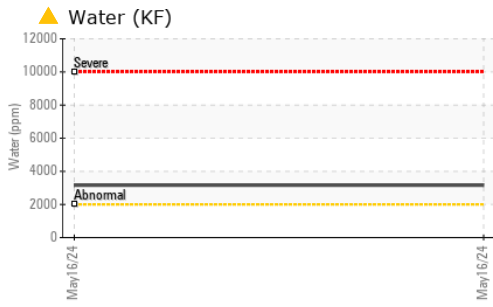
There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>6</b>	6	6
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	2
Water	%	ASTM D6304	>.2	<b>▲ 0.316</b>	---	---
ppm Water	ppm	ASTM D6304	>2000	<b>▲ 3160</b>	---	---
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>0.2%</b>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>1</b>	2	0
Boron	ppm	ASTM D5185m	6	<b>4</b>	0	1
Barium	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>4</b>	2	1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	2	1
Magnesium	ppm	ASTM D5185m	145	<b>117</b>	103	94
Calcium	ppm	ASTM D5185m	3570	<b>3222</b>	3562	3539
Phosphorus	ppm	ASTM D5185m	1290	<b>1019</b>	1054	1029
Zinc	ppm	ASTM D5185m	1640	<b>1137</b>	1147	1154
Sulfur	ppm	ASTM D5185m		<b>3955</b>	4736	4419
Visc @ 40°C	cSt	ASTM D445	57.0	<b>51.8</b>	52.2	53.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0179768  
**Lab Number** : 06186479  
**Unique Number** : 11043231  
**Test Package** : CONST ( Additional Tests: KF, PQ )

**Received** : 21 May 2024  
**Tested** : 22 May 2024  
**Diagnosed** : 23 May 2024 - Don Baldrige

**JRE - ASHLAND**  
 11047 LEADBETTER RD  
 ASHLAND, VA  
 US 23005

Contact: DAVID ZIEG  
 dzieg@jamesriverequipment.com

T: (804)798-6001  
 F: (804)798-0292

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)