



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



Area

**[16W16620]**

Machine Id

**JOHN DEERE 544K-II 1DW544KZLHF683807**

Component

**Front Differential**

Fluid

**JOHN DEERE HY-GARD HYD/TRANS (5 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: 16W16620 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0217340</b>	JR0206869	JR0196338
Sample Date		Client Info		<b>10 Jul 2024</b>	04 Apr 2024	31 Jan 2024
Machine Age	hrs	Client Info		<b>8465</b>	7958	7535
Oil Age	hrs	Client Info		<b>507</b>	1561	1138
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
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		<b>25</b>	36	31
Iron	ppm	ASTM D5185m	>500	<b>30</b>	33	28
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	0	2
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	4
Copper	ppm	ASTM D5185m	>100	<b>2</b>	5	5
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

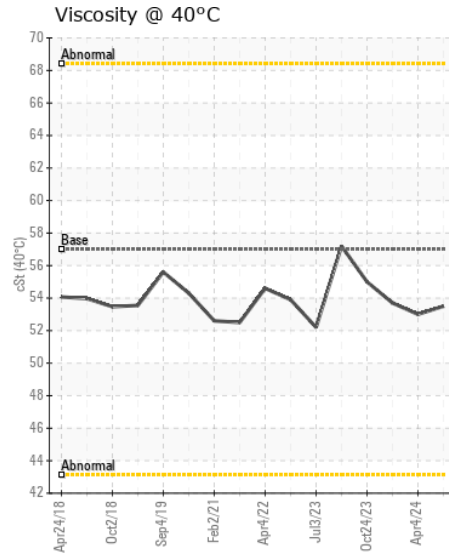
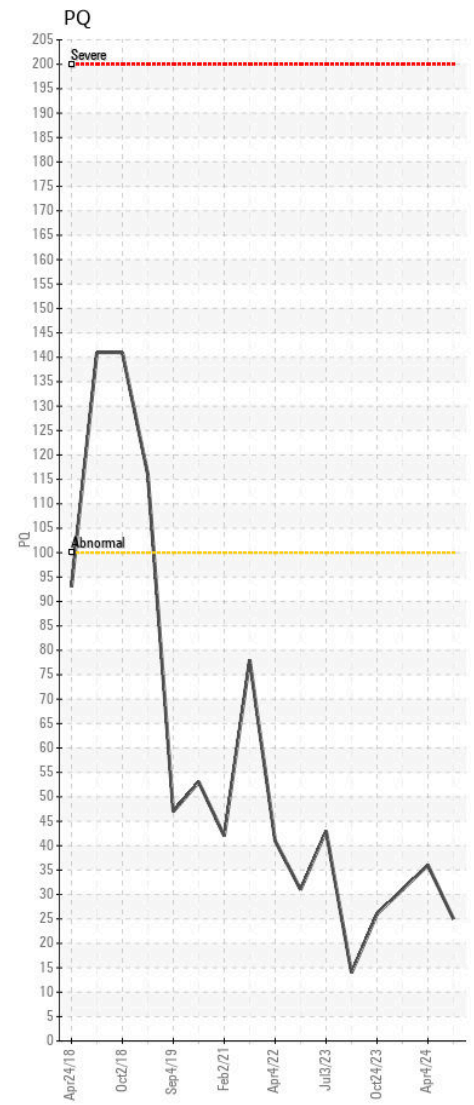
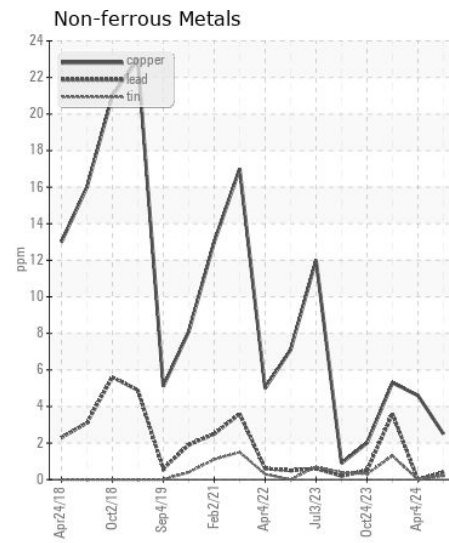
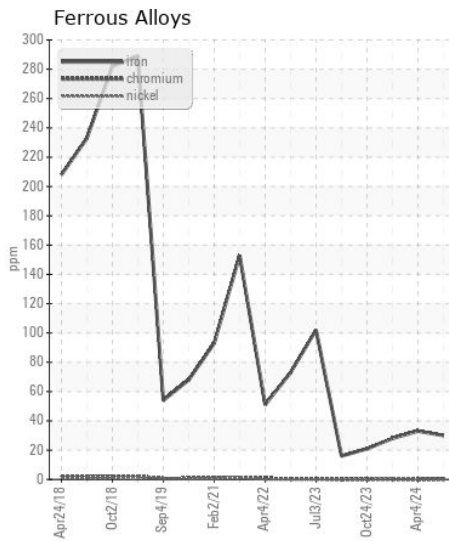
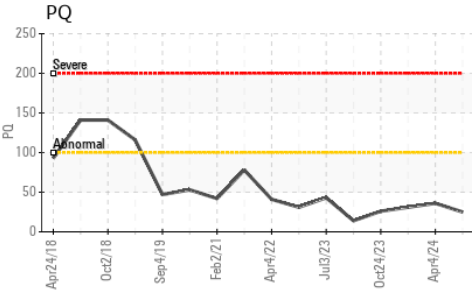
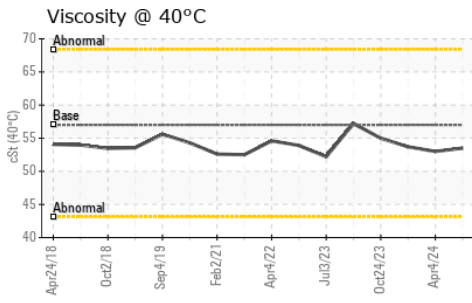
There is no indication of any contamination in the fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>75	<b>6</b>	4	6
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	2
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 fluid is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		<b>0</b>	<1	3
Boron	ppm	ASTM D5185m	6	<b>1</b>	0	0
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>1</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	2
Magnesium	ppm	ASTM D5185m	145	<b>96</b>	103	100
Calcium	ppm	ASTM D5185m	3570	<b>3499</b>	3507	3260
Phosphorus	ppm	ASTM D5185m	1290	<b>1026</b>	1045	979
Zinc	ppm	ASTM D5185m	1640	<b>1244</b>	1242	1195
Sulfur	ppm	ASTM D5185m		<b>4306</b>	4015	3278
Visc @ 40°C	cSt	ASTM D445	57.0	<b>53.5</b>	53.0	53.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0217340  
**Lab Number** : 06233458  
**Unique Number** : 11116951  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - CASTLE HAYNE**  
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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)