



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



Area  
**[16W16620]**  
 Machine Id  
**JOHN DEERE 544K-II 1DW544KZLHF683807**  
 Component  
**Transmission (Manual)**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (6 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>JR0217341</b>	JR0206867	JR0196335
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>507</b>	1561	1138
Oil Changed		Client Info		<b>Not Changed</b>	Changed	Not Changed
Filter Changed		Client Info		<b>Not Changed</b>	Changed	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184	>95	<b>19</b>	15	12
Iron	ppm	ASTM D5185m	>200	<b>15</b>	22	21
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>7	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	0	1
Lead	ppm	ASTM D5185m	>45	<b>&lt;1</b>	0	2
Copper	ppm	ASTM D5185m	>225	<b>10</b>	17	19
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

There is no indication of any contamination in the fluid.

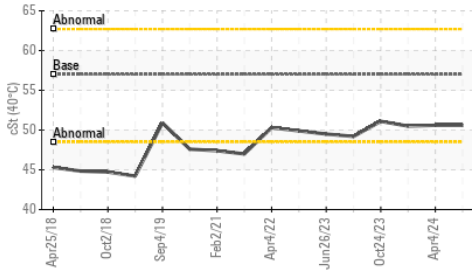
Silicon	ppm	ASTM D5185m	>125	<b>5</b>	6	7
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

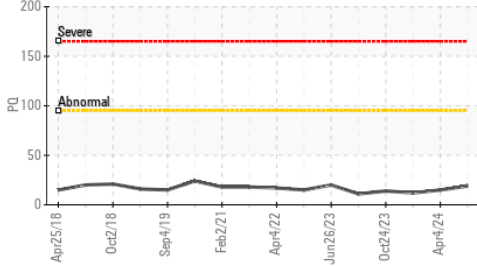
The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>0</b>	2	5
Boron	ppm	ASTM D5185m	6	<b>10</b>	1	2
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>1</b>	<1	2
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	2
Magnesium	ppm	ASTM D5185m	145	<b>92</b>	96	89
Calcium	ppm	ASTM D5185m	3570	<b>3423</b>	3444	3110
Phosphorus	ppm	ASTM D5185m	1290	<b>1020</b>	1058	959
Zinc	ppm	ASTM D5185m	1640	<b>1228</b>	1220	1150
Sulfur	ppm	ASTM D5185m		<b>3370</b>	3894	3135
Visc @ 40°C	cSt	ASTM D445	57.0	<b>50.6</b>	50.6	50.5

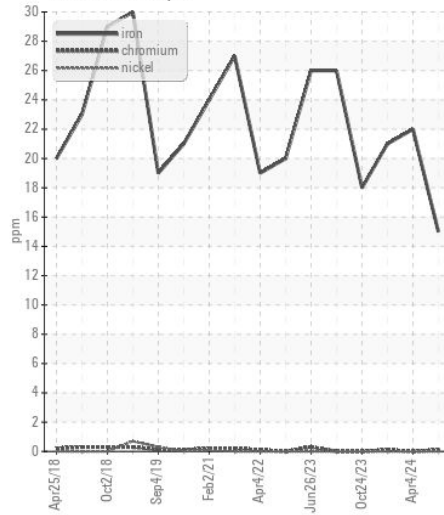
Viscosity @ 40°C



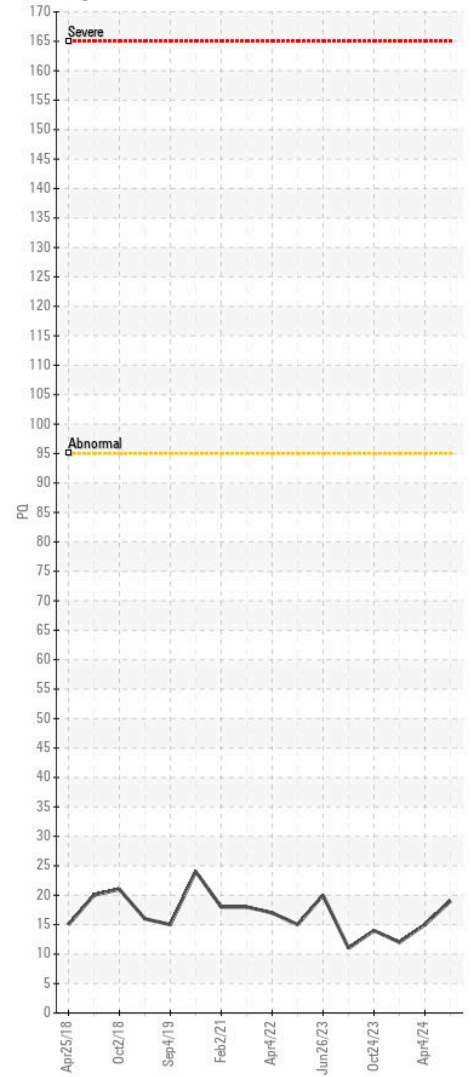
PQ



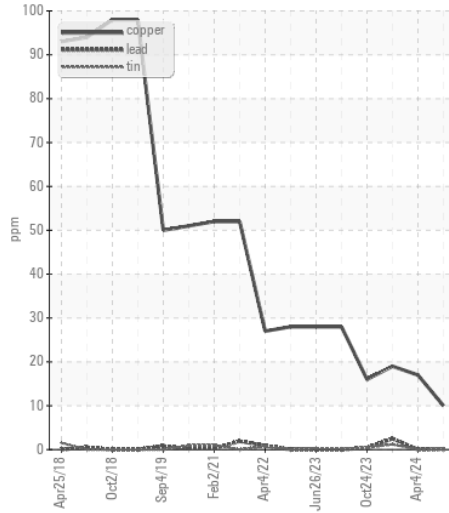
Ferrous Alloys



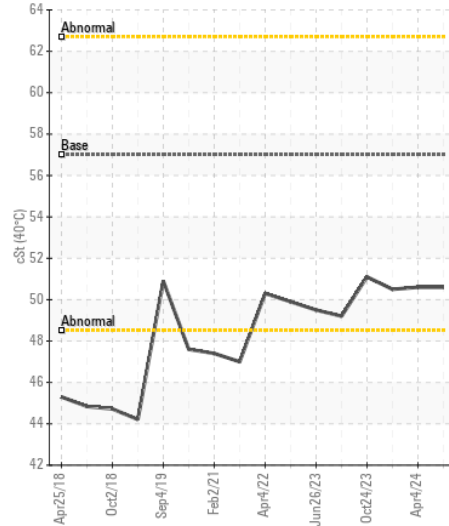
PQ



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0217341 **Received** : 11 Jul 2024  
**Lab Number** : 06233439 **Tested** : 12 Jul 2024  
**Unique Number** : 11116932 **Diagnosed** : 13 Jul 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - CASTLE HAYNE**  
 113 CROWATAN ROAD  
 CASTLE HAYNE, NC  
 US 28429-5819

Contact: WILMINGTON SHOP

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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)

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