



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



Area  
**[W8765]**  
 Machine Id  
**JOHN DEERE 824K 1DW824KXPHF679619**  
 Component  
**Front Differential**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (12 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: W8765 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0197208</b>	JR0183279	JR0183077
Sample Date		Client Info		<b>16 Apr 2024</b>	22 Jan 2024	20 Oct 2023
Machine Age	hrs	Client Info		<b>13976</b>	13495	12978
Oil Age	hrs	Client Info		<b>12233</b>	12551	978
Filter Age	hrs	Client Info		<b>0</b>	0	978
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>17</b>	12	11
Iron	ppm	ASTM D5185m	>1501	<b>18</b>	15	18
Chromium	ppm	ASTM D5185m	>11	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>21	<b>&lt;1</b>	3	<1
Lead	ppm	ASTM D5185m	>51	<b>10</b>	9	7
Copper	ppm	ASTM D5185m	>101	<b>13</b>	9	6
Tin	ppm	ASTM D5185m	>10	<b>1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

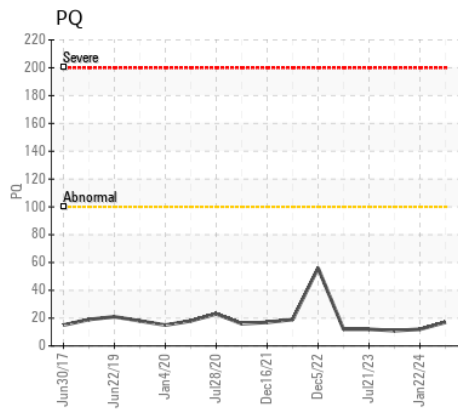
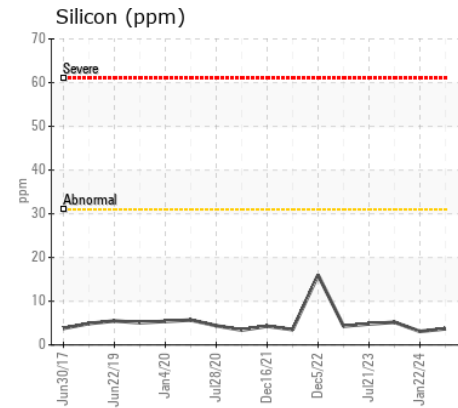
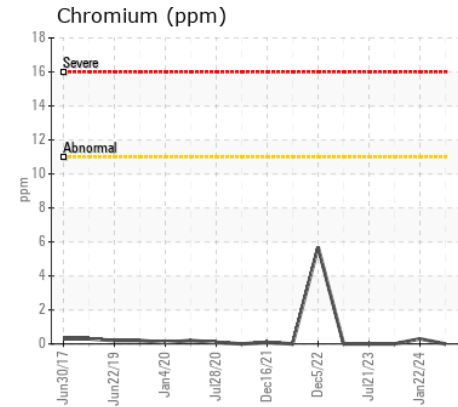
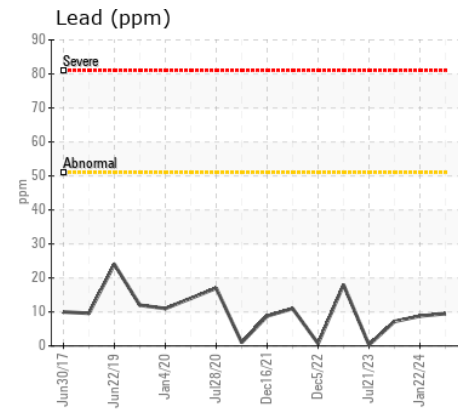
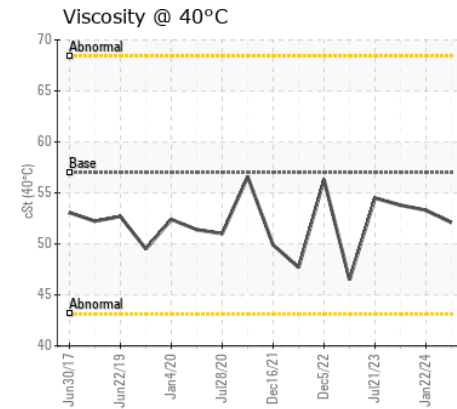
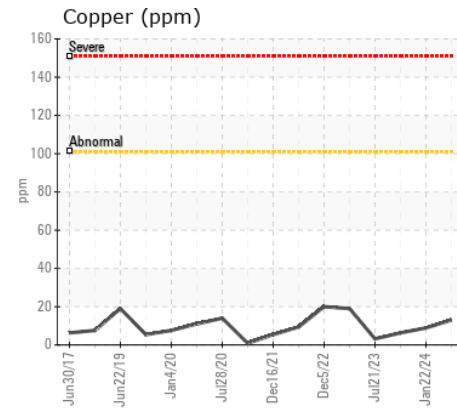
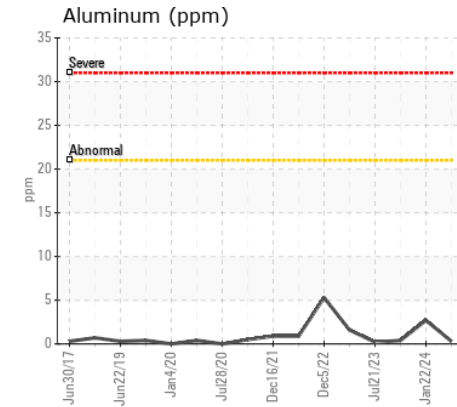
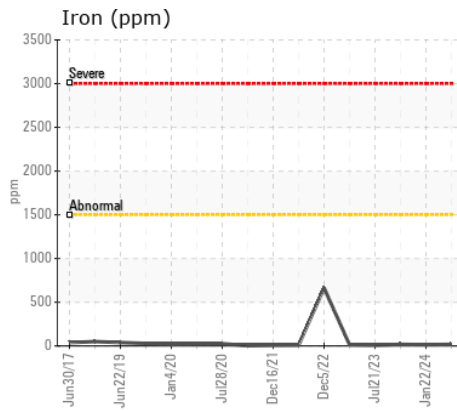
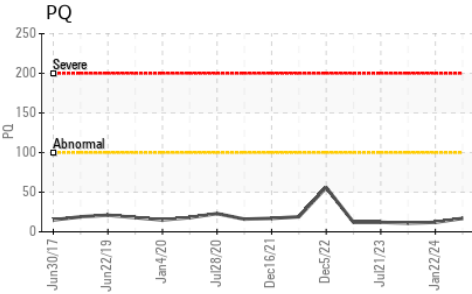
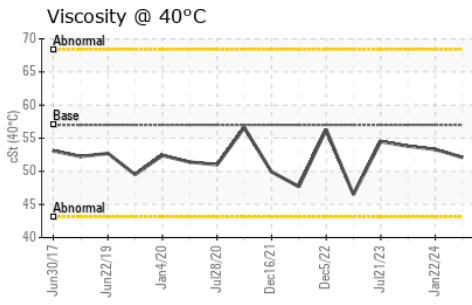
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	<b>4</b>	3	5
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	3	0
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 oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	<b>3</b>	0	1
Boron	ppm	ASTM D5185m	6	<b>3</b>	7	7
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>&lt;1</b>	1	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	145	<b>89</b>	96	92
Calcium	ppm	ASTM D5185m	3570	<b>3258</b>	3466	3356
Phosphorus	ppm	ASTM D5185m	1290	<b>939</b>	1024	1062
Zinc	ppm	ASTM D5185m	1640	<b>1024</b>	1256	1239
Sulfur	ppm	ASTM D5185m		<b>3723</b>	4760	3513
Visc @ 40°C	cSt	ASTM D445	57.0	<b>52.1</b>	53.3	53.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0197208

Lab Number : 06154718

Unique Number : 10990141

Test Package : MOBCE ( Additional Tests: PQ )

Received : 19 Apr 2024

Tested : 22 Apr 2024

Diagnosed : 23 Apr 2024 - Sean Felton

JRE - HOPE MILLS/FAYETTEVILLE

5039 HWY 301 SOUTH

HOPE MILLS, NC

US 28348

Contact: FAYETTEVILLE SHOP

stephen.mullis@jamesriverequipment.com; canastasio@wearcheck.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)

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