



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



Area

**[W8906]**

Machine Id

**JOHN DEERE 624K C109480 (S/N 1DW624KHKA0630110)**

Component

**Front Differential**

Fluid

**JOHN DEERE HY-GARD HYDRAULIC/RANSMISSION (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: W8906 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0196935</b>	JR0183157	JR0141197
Sample Date		Client Info		<b>19 Jun 2024</b>	04 Dec 2023	13 May 2023
Machine Age	hrs	Client Info		<b>23637</b>	22346	21252
Oil Age	hrs	Client Info		<b>1291</b>	22346	3000
Filter Age	hrs	Client Info		<b>0</b>	0	888
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	ABNORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184		<b>18</b>	394	1424
Iron	ppm	ASTM D5185m	>500	<b>27</b>	120	395
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	2
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	2	6
Lead	ppm	ASTM D5185m	>25	<b>19</b>	4	3
Copper	ppm	ASTM D5185m	>100	<b>8</b>	4	8
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	2
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	HEAVY	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

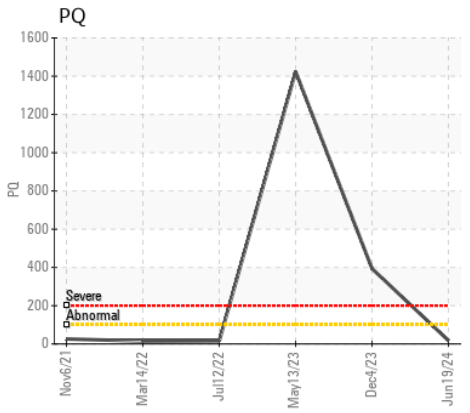
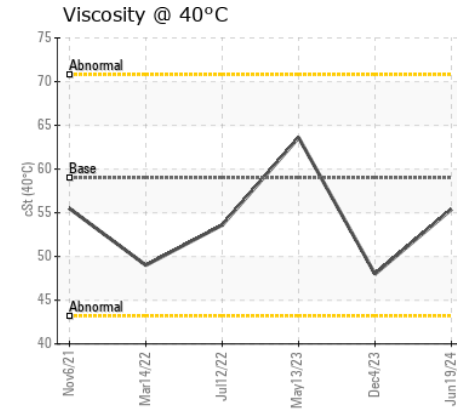
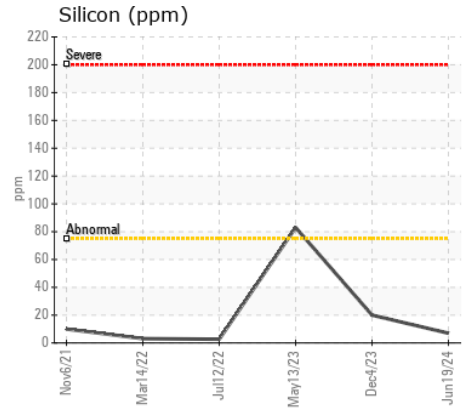
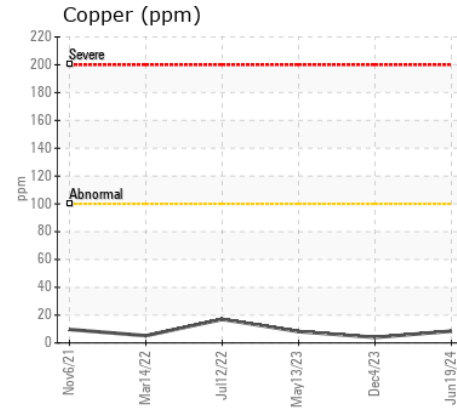
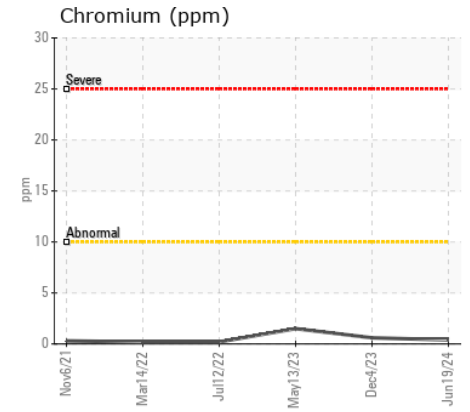
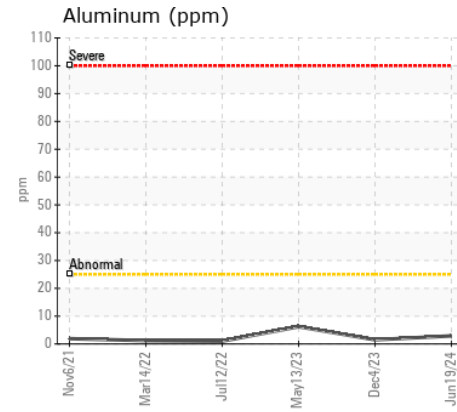
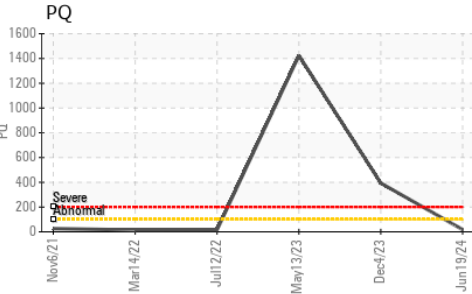
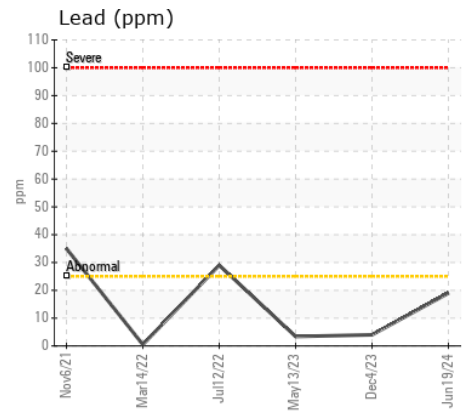
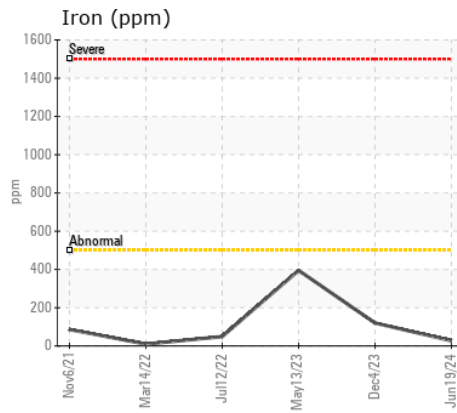
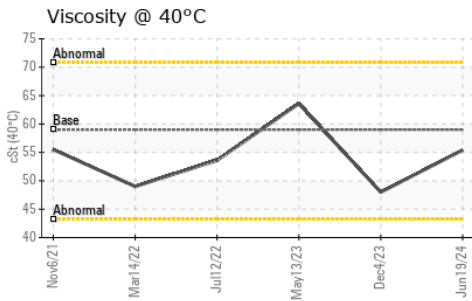
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>7</b>	20	83
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	17
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.

Sodium	ppm	ASTM D5185m		<b>0</b>	1	5
Boron	ppm	ASTM D5185m		<b>&lt;1</b>	9	18
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>1</b>	3	1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	4
Magnesium	ppm	ASTM D5185m		<b>88</b>	39	98
Calcium	ppm	ASTM D5185m		<b>3536</b>	2244	3327
Phosphorus	ppm	ASTM D5185m		<b>1102</b>	883	1042
Zinc	ppm	ASTM D5185m		<b>1282</b>	964	1264
Sulfur	ppm	ASTM D5185m		<b>3908</b>	2927	4469
Visc @ 40°C	cSt	ASTM D445	59	<b>55.4</b>	48.0	63.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0196935 **Received** : 24 Jun 2024  
**Lab Number** : 06218514 **Tested** : 25 Jun 2024  
**Unique Number** : 11096711 **Diagnosed** : 26 Jun 2024 - Sean Felton  
**Test Package** : MOBCE ( Additional Tests: PQ )

**JRE - HOPE MILLS/FAYETTEVILLE**  
 5039 HWY 301 SOUTH  
 HOPE MILLS, NC  
 US 28348  
 Contact: FAYETTEVILLE SHOP  
 stephen.mullis@jamesriverequipment.com; panastasio@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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F: