



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



Machine Id  
**2023**  
Component  
Center Differential  
Fluid

### JOHN DEERE HY-GARD HYD/TRANS (36 QTS)

#### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0210179</b>	JR0195540	JR0184585
Sample Date		Client Info		<b>03 Jun 2024</b>	16 Feb 2024	08 Nov 2023
Machine Age	hrs	Client Info		<b>4076</b>	3509	3022
Oil Age	hrs	Client Info		<b>1967</b>	500	3000
Filter Age	hrs	Client Info		<b>1967</b>	500	3000
Oil Changed		Client Info		<b>Changed</b>	N/A	Not Changd
Filter Changed		Client Info		<b>Changed</b>	N/A	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>82</b>	124	41
Iron	ppm	ASTM D5185m	>500	<b>189</b>	199	140
Chromium	ppm	ASTM D5185m	>10	<b>1</b>	2	<1
Nickel	ppm	ASTM D5185m	>10	<b>1</b>	5	1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	<1	3
Lead	ppm	ASTM D5185m	>25	<b>12</b>	<1	12
Copper	ppm	ASTM D5185m	>100	<b>121</b>	134	91
Tin	ppm	ASTM D5185m	>10	<b>6</b>	5	5
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

#### CONTAMINATION

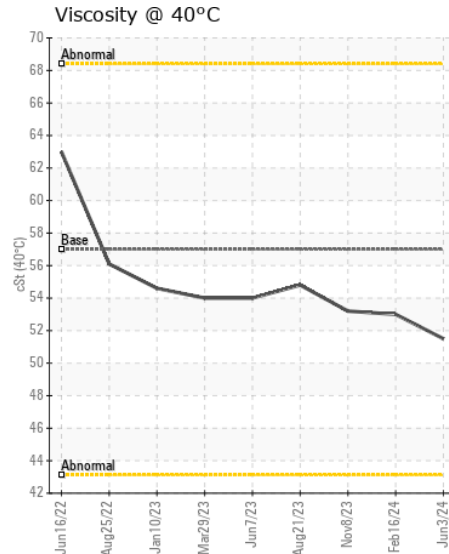
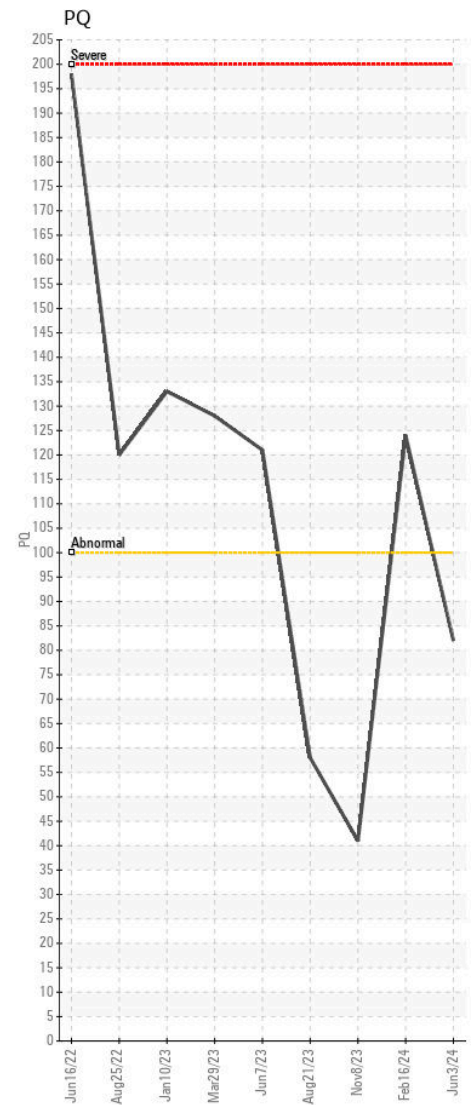
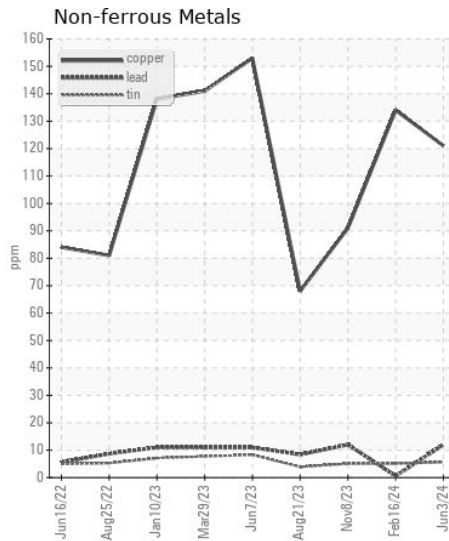
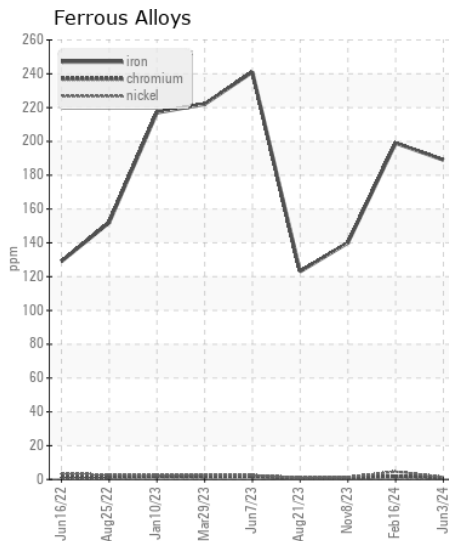
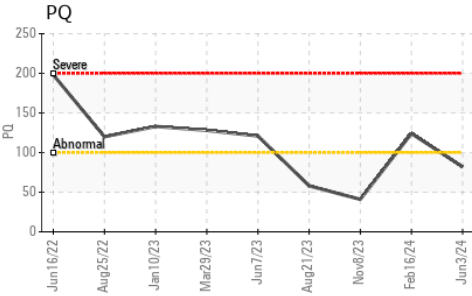
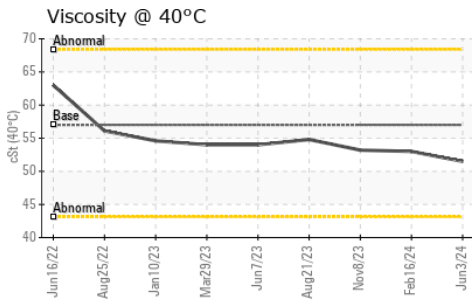
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>75	<b>8</b>	13	9
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	1	0
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>MODER</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		<b>3</b>	0	4
Boron	ppm	ASTM D5185m	6	<b>15</b>	13	13
Barium	ppm	ASTM D5185m	0	<b>0</b>	6	0
Molybdenum	ppm	ASTM D5185m	0	<b>4</b>	5	3
Manganese	ppm	ASTM D5185m		<b>10</b>	10	9
Magnesium	ppm	ASTM D5185m	145	<b>97</b>	100	107
Calcium	ppm	ASTM D5185m	3570	<b>3250</b>	3051	3189
Phosphorus	ppm	ASTM D5185m	1290	<b>1076</b>	932	1035
Zinc	ppm	ASTM D5185m	1640	<b>1263</b>	1179	1222
Sulfur	ppm	ASTM D5185m		<b>3381</b>	3453	3285
Visc @ 40°C	cSt	ASTM D445	57.0	<b>51.5</b>	53.0	53.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0210179 **Received** : 02 Jul 2024  
**Lab Number** : 06226528 **Tested** : 03 Jul 2024  
**Unique Number** : 11110021 **Diagnosed** : 03 Jul 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

**PATRIOT DEVELOPMENT CORP**  
 22721 LADBROOK DRIVE STE 120  
 STERLING, VA  
 US 20166  
 Contact: ROBERT MOSS  
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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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F: