

# Machine Id JOHN DEERE 624P 1DW624PACMLZ13219 Component Rear Axle

# JOHN DEERE HY-GARD HYD/TRANS (4 GAL)

### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

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# WEAR

Bearing and/or bushing wear is indicated.

#### CONTAMINATION

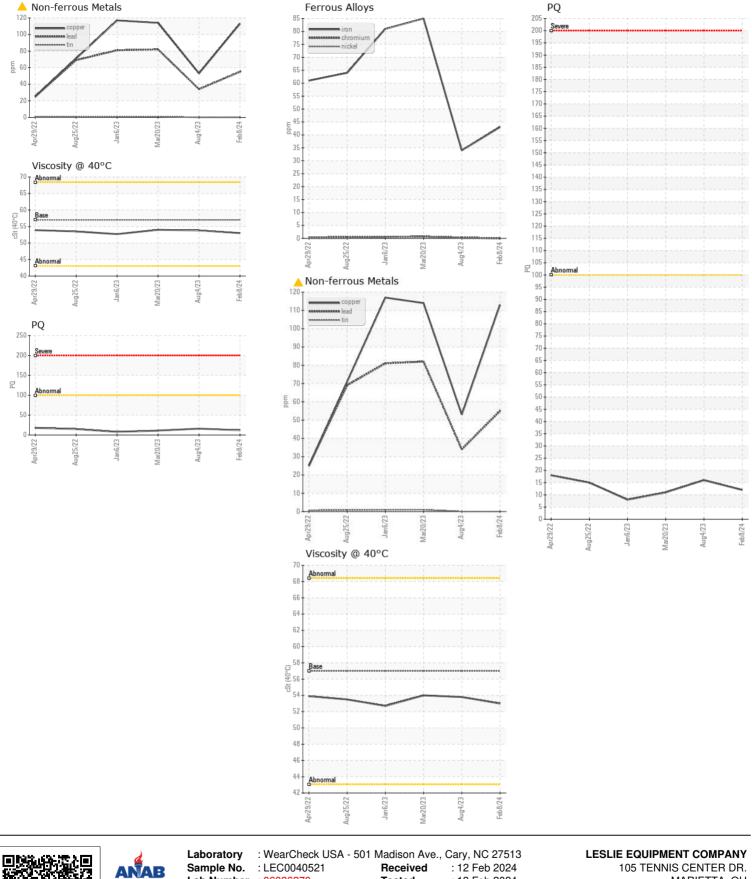
There is no indication of any contamination in the oil.

### **FLUID CONDITION**

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0040521	LEC0041070	LEC0036931
Sample Date		Client Info		08 Feb 2024	04 Aug 2023	20 Mar 2023
Machine Age	hrs	Client Info		3146	2507	2019
Oil Age	hrs	Client Info		1127	488	2019
Filter Age	hrs	Client Info		1127	488	1007
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
PQ		ASTM D8184		10	16	11
	2022		. 750	12 43	-	
Iron	ppm	ASTM D5185m	>750		34	85
Chromium	ppm	ASTM D5185m	>11	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m ASTM D5185m		0	<1	<1
Silver	ppm		. 01	0	0	<1
Aluminum	ppm	ASTM D5185m	>21	0	<1	<1
Lead	ppm	ASTM D5185m	>49	▲ 55	34	▲ 82
Copper	ppm	ASTM D5185m	>101	▲ 113 0	53	▲ 114
Tin	ppm	ASTM D5185m	>10	0	0	1
Vanadium	ppm	ASTM D5185m	NONE	0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>31	6	5	7
Silicon Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>31 >20	6 0	5 0	7 <1
				-	-	
Potassium		ASTM D5185m	>20	0	0	<1
Potassium Water	ppm	ASTM D5185m WC Method	>20 >0.1	0 NEG	0 NEG	<1 NEG
Potassium Water Silt	ppm scalar	ASTM D5185m WC Method *Visual	>20 >0.1 NONE	0 NEG NONE	0 NEG NONE	<1 NEG NONE
Potassium Water Silt Debris	ppm scalar scalar	ASTM D5185m WC Method *Visual *Visual	>20 >0.1 NONE NONE	0 NEG NONE NONE	0 NEG NONE NONE	<1 NEG NONE NONE
Potassium Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual	>20 >0.1 NONE NONE NONE	0 NEG NONE NONE NONE	0 NEG NONE NONE	<1 NEG NONE NONE
Potassium Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>20 >0.1 NONE NONE NONE	0 NEG NONE NONE NONE NORML	0 NEG NONE NONE NONE NORML	<1 NEG NONE NONE NONE NORML
Potassium Water Silt Debris Sand/Dirt Appearance Odor	ppm scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	>20 >0.1 NONE NONE NORML NORML	0 NEG NONE NONE NORE NORML	0 NEG NONE NONE NONE NORML NORML	<1 NEG NONE NONE NONE NORML NORML
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>20 >0.1 NONE NONE NORML NORML >0.1	0 NEG NONE NONE NORE NORML NEG	0 NEG NONE NONE NORML NORML NEG	<1 NEG NONE NONE NORML NORML NEG
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.1 NONE NONE NORML NORML >0.1	0 NEG NONE NONE NORML NORML NEG 4	0 NEG NONE NONE NORML NORML NEG 3	<1 NEG NONE NONE NORML NORML NEG 6
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.1 NONE NONE NORML >0.1 >51 6	0 NEG NONE NONE NORML NORML NEG 4 2	0 NEG NONE NONE NORML NORML NEG 3 <1	<1 NEG NONE NONE NORML NORML NEG 6 4
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>20 >0.1 NONE NONE NORML NORML >0.1 >51 6 0	0 NEG NONE NONE NORML NORML NEG 4 2 0	0 NEG NONE NONE NORML NORML NEG 3 <1 0	<1 NEG NONE NONE NORML NORML NEG 6 4 0
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.1 NONE NONE NORML NORML >0.1 >51 6 0	0 NEG NONE NONE NORML NORML NEG 4 2 0 5	0 NEG NONE NONE NORML NORML NEG 3 <1 0 <1	<1 NEG NONE NONE NORML NORML NEG 6 4 0 4
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.1 NONE NONE NORML NORML >0.1 >51 6 0	0 NEG NONE NONE NORML NORML NEG 4 2 0 5 <1	0 NEG NONE NONE NORML NORML NEG 3 <1 0 <1 0	<pre>&lt;1 NEG NONE NONE NORML NORML NEG 6 4 0 4 3</pre>
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.1 NONE NONE NORML >0.1 >51 6 0 0 0	0 NEG NONE NONE NORML NORML NEG 4 2 0 5 <1 100	0 NEG NONE NONE NORML NORML NEG 3 <1 0 <1 <1 <1 98	<ul> <li>&lt;1</li> <li>NEG</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>6</li> <li>4</li> <li>0</li> <li>4</li> <li>3</li> <li>95</li> </ul>
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.1 NONE NONE NORML NORML >0.1 >51 6 0 0 0 145 3570	0 NEG NONE NONE NORML NORML NEG 4 2 0 5 <1 100 3331	0 NEG NONE NONE NORML NORML NEG 3 <1 0 <1 <1 98 3286	<1 NEG NONE NONE NORML NORML NORML NEG 6 4 0 4 3 95 3121
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.1 NONE NONE NORML >0.1 >51 6 0 0 0 145 3570 1290	0 NEG NONE NONE NORML NORML NEG 4 2 0 5 <1 100 3331 989	0 NEG NONE NONE NORML NORML NEG 3 <1 0 <1 <1 98 3286 978	<1 NEG NONE NORML NORML NORML NEG 6 4 0 4 3 95 3121 953
Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.1 NONE NONE NORML >0.1 >51 6 0 0 0 145 3570 1290	0 NEG NONE NONE NORE NORML NEG 4 2 0 5 <1 100 3331 989 1284	0 NEG NONE NONE NORML NORML NEG 3 <1 0 <1 <1 98 3286 978 1194	<1 NEG NONE NONE NORML NORML NORML NORML 0 6 4 3 95 3121 953 1154

Submitted By: STORE 1 - COWEN - JENNIFER ARMENTROUT



Received : 12 Feb 2024 105 TENNIS CENTER DR. Sample No. : LEC0040521 Lab Number : 06086270 MARIETTA, OH Tested : 13 Feb 2024 Unique Number : 10873715 : 13 Feb 2024 - Sean Felton US 45750-9765 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: LEANNE KENDALL Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. KendalLeanne@lec1.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: F: (740)373-5570 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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