

**OIL ANALYSIS REPORT** 

#### WEAR **ABNORMAL** CONTAMINATION NORMAL FLUID CONDITION NORMAL

# [125295] **JOHN DEERE 824L 1DW824LXVML712912 Front Differential**

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

### RECOMMENDATION

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The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

$\Lambda / E$	
VV C/	AR

Bearing and/or bushing wear is indicated. All other component wear rates are normal.

#### CONTAMINATION

There is no indication of any contamination in the oil.

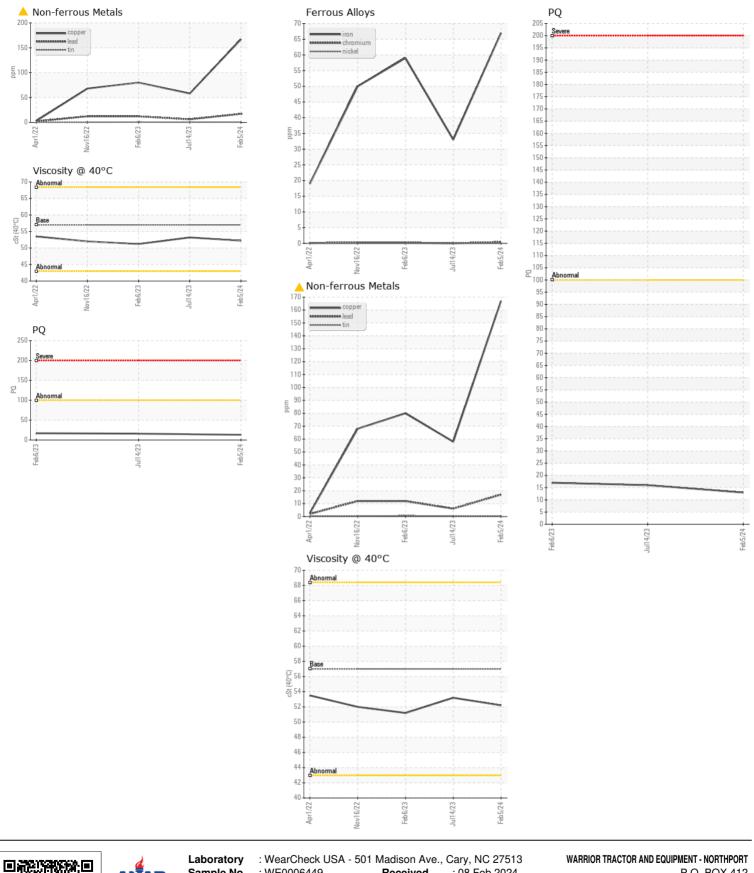
#### **FLUID CONDITION**

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WE0006449	WE0004540	WE0003659
Sample Date		Client Info		05 Feb 2024	14 Jul 2023	06 Feb 2023
Machine Age	hrs	Client Info		4097	2991	1960
Oil Age	hrs	Client Info		0	0	1960
Filter Age	hrs	Client Info		0	0	960
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
DO				40	10	17
PQ		ASTM D8184	500	13	16	17
Iron	ppm	ASTM D5185m	>500	67	33	59
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	05	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	0	<1
Lead	ppm	ASTM D5185m	>25	17	6	12
Copper	ppm	ASTM D5185m	>100	<b>1</b> 67	58	80
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	6	4	4
Potassium	ppm	ASTM D5185m	>20	2	0	0
Water		WC Method	>.2	NEG	NEG	NEG
Water Silt	scalar	WC Method *Visual	>.2 NONE	NEG NONE	NEG NONE	NEG NONE
	scalar scalar			-		
Silt		*Visual	NONE	NONE	NONE	NONE
Silt Debris	scalar	*Visual *Visual	NONE NONE	NONE NONE	NONE	NONE
Silt Debris Sand/Dirt	scalar scalar	*Visual *Visual *Visual	NONE NONE NONE	NONE NONE NONE	NONE NONE NONE	NONE NONE NONE
Silt Debris Sand/Dirt Appearance	scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NONE NORML	NONE NONE NONE NORML	NONE NONE NORML	NONE NONE NORML
Silt Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual	NONE NONE NORML NORML	NONE NONE NORE NORML	NONE NONE NORML NORML	NONE NONE NORML NORML
Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar ppm	*Visual *Visual *Visual *Visual *Visual	NONE NONE NORML NORML	NONE NONE NORML NORML NEG	NONE NONE NORML NORML NEG	NONE NONE NORML NORML NEG
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	NONE NONE NORML NORML >.2	NONE NONE NORML NORML NEG 3	NONE NONE NORML NORML NEG 3	NONE NONE NORML NORML NEG 4
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	NONE NONE NORML NORML >.2	NONE NONE NORML NORML NEG 3 2	NONE NONE NORML NORML NEG 3 0	NONE NONE NORML NORML NEG 4 0
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	NONE NONE NORML >.2 6 0	NONE NONE NORML NORML NEG 3 2 0	NONE NONE NORML NORML NEG 3 0 0	NONE NONE NORML NORML NEG 4 0 0
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar scalar ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NORML >.2 6 0	NONE NONE NORML NORML NEG 3 2 0 1	NONE NONE NORML NORML NEG 3 0 0 1	NONE NONE NORML NORML NEG 4 0 0 2
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >.2 6 0	NONE NONE NORML NORML NEG 3 2 0 1 1 <1	NONE NONE NORML NORML NEG 3 0 0 1 1 <1	NONE NONE NORML NORML NEG 4 0 0 2 1
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar scalar scalar scalar ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORME NORML >.2 6 0 0 0	NONE NONE NORML NORML NEG 3 2 0 1 1 <1 148	NONE NONE NORML NORML NEG 3 0 0 1 1 <1 93	NONE NONE NORML NORML NEG 4 0 0 2 1 1 87
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORME NORML >.2 6 0 0 0 0 145 3570	NONE NONE NORML NORML NEG 3 2 0 1 1 <1 148 4354	NONE NONE NORML NORML NEG 3 0 0 0 1 1 <1 93 3430	NONE NONE NORML NORML NEG 4 0 0 2 1 1 87 3296
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORM NORM >.2 6 0 0 0 145 3570 1290	NONE NONE NORML NORML NEG 3 2 0 1 <1 <1 148 4354 1550	NONE NONE NORML NORML NEG 3 0 0 1 <1 93 3430 1010	NONE NONE NORML NORML NEG 4 0 0 0 2 1 1 87 3296 969
Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium Calcium Phosphorus	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORM NORM >.2 6 0 0 0 145 3570 1290	NONE NONE NORML NORML NEG 3 2 0 1 1 <1 148 4354 1550 1798	NONE NONE NORML NORML NEG 3 0 0 1 1 <1 93 3430 1010 1187	NONE NORE NORML NORML NEG 4 0 0 2 2 1 87 3296 969 1173

Contact/Location: CRAIG ANDOE - WARNOR



: WearCheck USA - 501 Madison Ave., Cary, NC 27513 WARRIOR TRACTOR AND EQUIPMENT - NORTHPORT Laboratory Sample No. : WE0006449 Received P.O. BOX 412 :08 Feb 2024 : 09 Feb 2024 Lab Number : 06083900 NORTHPORT, AL Tested Unique Number : 10871345 : 11 Feb 2024 - Don Baldridge US 35476 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: CRAIG ANDOE Certificate L2367 serve01@warriortractor.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. T: (205)339-0300 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: CRAIG ANDOE - WARNOR