

Machine Id

# WEAR ATTENTION CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

#### 5043 Component

Right Outer Final Drive

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

**RECOMMENDATION** We advise that you check all areas where dirt can enter the system.

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

### **WEAR**

All component wear rates are normal.

## CONTAMINATION

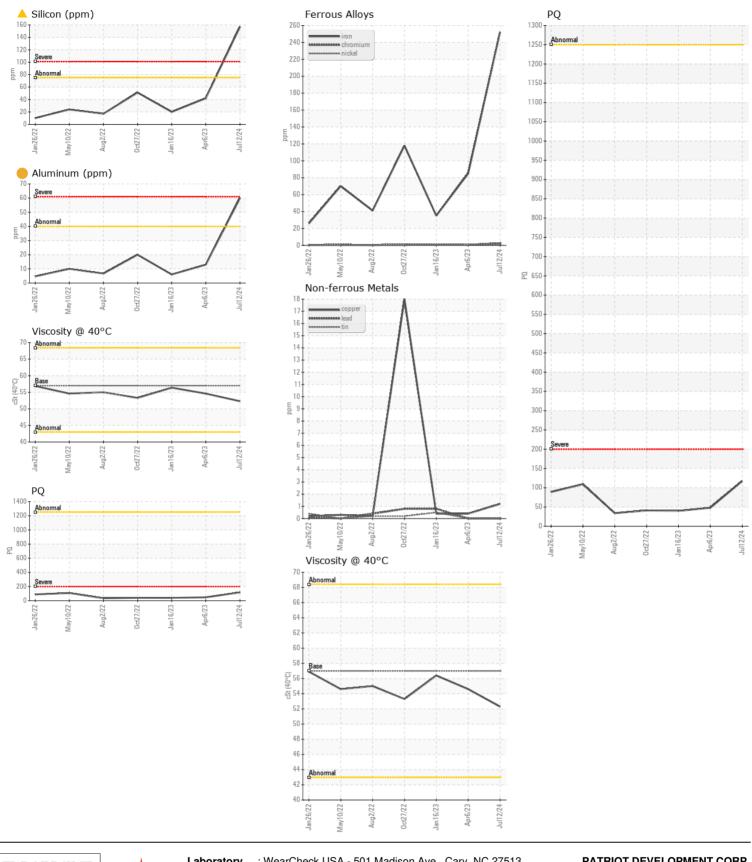
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.

## FLUID CONDITION

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

Toot		Mothad	Limit/Aba	Current	Historyd	Listor ()
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0221285	JR0137963	JR0151647
Sample Date Machine Age	hrs	Client Info Client Info		12 Jul 2024 5395	06 Apr 2023 3011	16 Jan 2023 2470
0						
Oil Age	hrs	Client Info		2384	1000	0
Filter Age	hrs	Client Info		2384 Observed	1000 Channed	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
PQ		ASTM D8184	>1250	117	48	40
Iron	ppm	ASTM D5185m	>750	252	85	35
Chromium	ppm	ASTM D5185m	>9	2	<1	<1
Nickel	ppm	ASTM D5185m	>10	3	<1	<1
Titanium	ppm	ASTM D5185m		4	<1	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>40	60	13	6
Lead	ppm	ASTM D5185m	>15	0	0	<1
Copper	ppm	ASTM D5185m	>40	1	<1	<1
Tin	ppm	ASTM D5185m	>10	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	<b>157</b>	42	20
Potassium	ppm	ASTM D5185m	>20	20	4	0
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar			NONE		
Sand/Dirt	Juan	*Visual	NONE	NONE	NONE	NONE
Sanu/Din	scalar	*Visual *Visual	NONE NONE	-	NONE	NONE NONE
Appearance				NONE		
	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar scalar	*Visual *Visual	NONE	NONE NONE NORML	NONE	NONE
Appearance Odor	scalar scalar scalar	*Visual *Visual *Visual	NORML NORML	NONE NONE NORML NORML	NONE NORML NORML	NONE NORML NORML
Appearance Odor Emulsified Water	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NORML NORML >0.075	NONE NORML NORML NEG	NONE NORML NORML NEG	NONE NORML NORML NEG
Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar ppm	*Visual *Visual *Visual *Visual ASTM D5185m	NORML NORML >0.075 >51	NONE NORML NORML NEG 0	NONE NORML NORML NEG	NONE NORML NORML NEG 2
Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual ASTM D5185m	NONE NORML >0.075 >51 6 0	NONE NORML NORML NEG 0 8	NONE NORML NORML NEG <1 <1	NONE NORML NORML NEG 2 1
Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML >0.075 >51 6 0	NONE NORML NORML NEG 0 8 0	NONE NORML NORML NEG <1 <1 <1 0	NONE NORML NEG 2 1 <1
Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML >0.075 >51 6 0	NONE NORML NORML NEG 0 8 0 8	NONE NORML NEG <1 <1 0 <1	NONE NORML NORML NEG 2 1 <1 <1
Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar ppm ppm ppm ppm	*Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.075 >51 6 0 0	NONE NORML NORML NEG 0 8 0 8 3	NONE NORML NORML NEG <1 <1 0 <1 1	NONE NORML NORML NEG 2 1 <1 <1 <1 <1
Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar scalar scalar ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML >0.075 >51 6 0 0 0	NONE NORML NORML NEG 0 8 0 8 3 141	NONE NORML NEG <1 <1 <1 0 <1 1 91	NONE NORML NEG 2 1 <1 <1 <1 <1 <1 98
Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML >0.075 >51 6 0 0 0 145 3570	NONE NORML NORML NEG 0 8 0 8 3 141 4070	NONE NORML NEG <1 <1 <1 0 <1 1 1 91 3230	NONE NORML NORML NEG 2 1 <1 <1 <1 <1 <1 <1 98 3309
AppearanceOdorEmulsified WaterSodiumBoronBariumMolybdenumManganeseMagnesiumCalciumPhosphorus	scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML >0.075 >51 6 0 0 0 145 3570 1290	NONE NORML NORML NEG 0 8 0 8 3 141 4070 1206	NONE NORML NORML NEG <1 <1 0 <1 1 91 3230 940	NONE NORML NORML NEG 2 1 <1 <1 <1 <1 <1 98 3309 963

Submitted By: BRANDON STEVENS



PATRIOT DEVELOPMENT CORP Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : JR0221285 Received 22721 LADBROOK DRIVE STE 120 : 18 Jul 2024 Lab Number : 06240612 Tested STERLING, VA : 19 Jul 2024 Unique Number : 11129446 : 20 Jul 2024 - Don Baldridge US 20166 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: ROBERT MOSS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. robert.moss@patriotdev.net \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Т: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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