

## WEAR ATTENTION CONTAMINATION ABNORMAL FLUID CONDITION NORMAL



RECOMMENDATION

# JOHN DEERE 210GLC 1FF210GXPNF529831

Left Propel Gearbox

JOHN DEERE HY-GARD HYD/TRANS (2 GAL)

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.

[147699]

#### **WEAR**

All component wear rates are normal.

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### CONTAMINATION

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

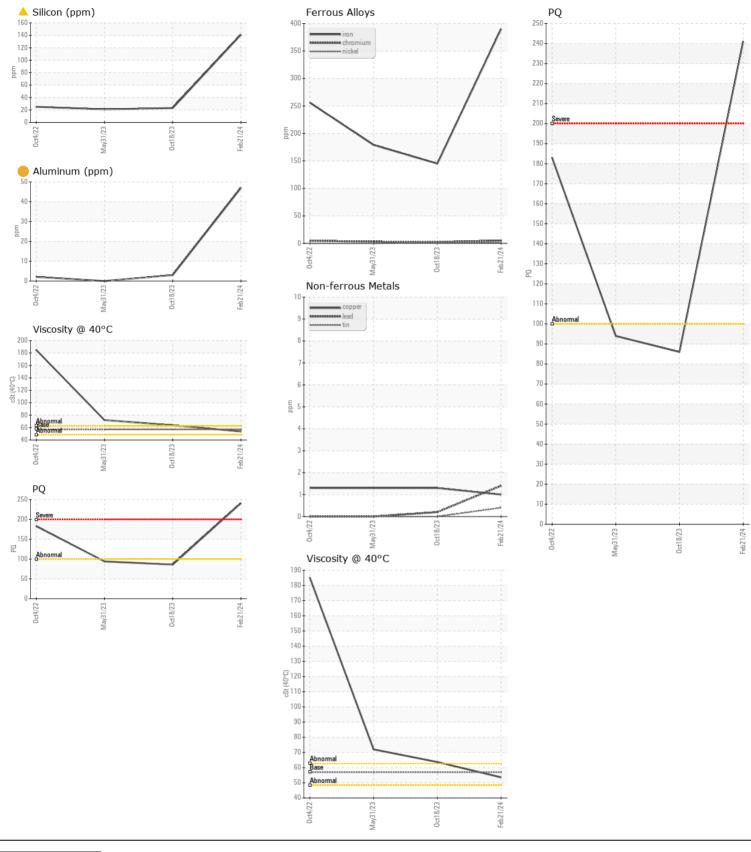
#### FLUID CONDITION

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

	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LEC0047331	LEC0044255	LEC0041748
	Sample Date		Client Info		21 Feb 2024	18 Oct 2023	31 May 2023
	Machine Age	hrs	Client Info		2329	1724	1113
	Oil Age	hrs	Client Info		605	611	1113
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	N/A	None
	Sample Status				ABNORMAL	ATTENTION	ATTENTION
	 PQ		ASTM D8184		241	86	94
	Iron	nnm	ASTM Do104 ASTM D5185m	>1250	390	145	94 179
	Chromium	ppm	ASTM D5185m	>1230	5	2	3
	Nickel	ppm	ASTM D5185m	>10	1	<1	0
	Titanium	ppm	ASTM D5185m	>10	3	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm			47		0
		ppm	ASTM D5185m			3	
	Lead	ppm	ASTM D5185m ASTM D5185m		1	<1	0
	Copper	ppm			-	1	1
	Tin	ppm	ASTM D5185m		<1	0	0
	Vanadium	ppm	ASTM D5185m		<1 NONE	0	
	White Metal	scalar	*Visual	NONE	NONE	MODER	NONE
			*\/:		NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal Silicon	scalar ppm	*Visual ASTM D5185m	NONE	NONE 141	NONE 23	NONE 21
				NONE >20			
	Silicon	ppm	ASTM D5185m		<b>1</b> 41	23	21
	Silicon Potassium	ppm	ASTM D5185m ASTM D5185m	>20	▲ 141 13	23 3	21 0
	Silicon Potassium Water	ppm ppm	ASTM D5185m ASTM D5185m WC Method	>20 >0.2	141 13 NEG	23 3 NEG	21 0 NEG
	Silicon Potassium Water Silt	ppm ppm scalar	ASTM D5185m ASTM D5185m WC Method *Visual	>20 >0.2 NONE	<ul> <li>141</li> <li>13</li> <li>NEG</li> <li>MODER</li> </ul>	23 3 NEG NONE	21 0 NEG MODER
	Silicon Potassium Water Silt Debris	ppm ppm scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual	>20 >0.2 NONE NONE	<ul> <li>141</li> <li>13</li> <li>NEG</li> <li>MODER</li> <li>NONE</li> </ul>	23 3 NEG NONE NONE	21 0 NEG MODER NONE
	Silicon Potassium Water Silt Debris Sand/Dirt	ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual	>20 >0.2 NONE NONE NONE	<ul> <li>141</li> <li>13</li> <li>NEG</li> <li>MODER</li> <li>NONE</li> <li>NONE</li> </ul>	23 3 NEG NONE NONE NONE	21 0 NEG MODER NONE NONE
	Silicon Potassium Water Silt Debris Sand/Dirt Appearance	ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NONE NORML	<ul> <li>141</li> <li>13</li> <li>NEG</li> <li>MODER</li> <li>NONE</li> <li>NORML</li> </ul>	23 3 NEG NONE NONE NONE NORML	21 0 NEG MODER NONE NONE NORML
	Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NONE NORML NORML	<ul> <li>141</li> <li>13</li> <li>NEG</li> <li>MODER</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> </ul>	23 3 NEG NONE NONE NONE NORML NORML NEG	21 0 NEG MODER NONE NONE NORML NORML NEG
	Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NONE NORML NORML	<ul> <li>141</li> <li>13</li> <li>NEG</li> <li>MODER</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>2</li> </ul>	23 3 NEG NONE NONE NORML NORML NEG 0	21 0 NEG MODER NONE NONE NORML NORML
	Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.2 NONE NONE NORML NORML >0.2	<ul> <li>141</li> <li>13</li> <li>NEG</li> <li>MODER</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> </ul>	23 3 NEG NONE NONE NONE NORML NORML NEG	21 0 NEG MODER NONE NORM NORML NORML NEG <1
	Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.2 NONE NONE NORML >0.2	<ul> <li>141</li> <li>13</li> <li>NEG</li> <li>MODER</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>2</li> <li>6</li> </ul>	23 3 NEG NONE NONE NORML NORML NEG 0 17	21 0 NEG MODER NONE NORML NORML NEG <1 45
	Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML >0.2	<ul> <li>141</li> <li>13</li> <li>NEG</li> <li>MODER</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>2</li> <li>6</li> <li>0</li> </ul>	23 3 NEG NONE NONE NORML NORML NORML NEG 0 17 11	21 0 NEG MODER NONE NORML NORML NEG <1 45 0
	Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML >0.2	<ul> <li>141</li> <li>13</li> <li>NEG</li> <li>MODER</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>2</li> <li>6</li> <li>0</li> <li>2</li> </ul>	23 3 NEG NONE NONE NORML NORML NEG 0 17 11 4	21 0 NEG MODER NONE NORML NORML NEG <1 45 0 3
	Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML >0.2	<ul> <li>141</li> <li>13</li> <li>NEG</li> <li>MODER</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>2</li> <li>6</li> <li>0</li> <li>2</li> <li>5</li> </ul>	23 3 NEG NONE NONE NORML NORML NEG 0 17 11 4 2	21 0 NEG MODER NONE NORML NORML NEG <1 45 0 3 3
	Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML >0.2 6 0 0	<ul> <li>141</li> <li>13</li> <li>NEG</li> <li>MODER</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>2</li> <li>6</li> <li>0</li> <li>2</li> <li>5</li> <li>104</li> </ul>	23 3 NEG NONE NONE NORML NORML NEG 0 17 11 4 2 2	21 0 NEG MODER NONE NORML NORML NEG <1 45 0 3 3 3
	Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;20</li> <li>&gt;0.2</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>&gt;0.2</li> <li>6</li> <li>0</li> <li>0</li> <li>145</li> <li>3570</li> </ul>	<ul> <li>141</li> <li>13</li> <li>NEG</li> <li>MODER</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>2</li> <li>6</li> <li>0</li> <li>2</li> <li>5</li> <li>104</li> <li>3357</li> </ul>	23 3 NEG NONE NONE NORML NORML NEG 0 17 11 4 2 2 101 3141	21 0 NEG NODER NONE NORML NORML NEG <1 45 0 3 3 68 68 2438
	Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm pm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;20</li> <li>&gt;0.2</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>&gt;0.2</li> <li>0</li> <li>0</li> <li>145</li> <li>3570</li> <li>1290</li> </ul>	<ul> <li>141</li> <li>13</li> <li>NEG</li> <li>MODER</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>2</li> <li>6</li> <li>0</li> <li>2</li> <li>5</li> <li>104</li> <li>3357</li> <li>969</li> </ul>	23 3 NEG NONE NONE NORML NORML NEG 0 17 11 4 2 101 3141 1047	21 0 NEG NONE NONE NORML NORML NEG <1 45 0 3 3 3 68 68 2438 791
	Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm pm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;20</li> <li>&gt;0.2</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>&gt;0.2</li> <li>0</li> <li>0</li> <li>145</li> <li>3570</li> <li>1290</li> </ul>	<ul> <li>141</li> <li>13</li> <li>NEG</li> <li>MODER</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>NEG</li> <li>2</li> <li>6</li> <li>0</li> <li>2</li> <li>5</li> <li>104</li> <li>3357</li> <li>969</li> <li>1218</li> </ul>	23 3 NEG NONE NONE NORML NORML NEG 0 17 11 4 2 101 3141 1047 1178	21 0 NEG MODER NONE NORML NORML NEG <1 45 0 3 3 3 68 2438 791 817

Report Id: LESMAROH [WUSCAR] 06100379 (Generated: 02/28/2024 20:38:13) Rev: 1

Submitted By: STORE 1 - COWEN - JENNIFER ARMENTROUT



: WearCheck USA - 501 Madison Ave., Cary, NC 27513 LESLIE EQUIPMENT COMPANY Laboratory Sample No. : 26 Feb 2024 105 TENNIS CENTER DR. : LEC0047331 Received Lab Number : 06100379 : 27 Feb 2024 MARIETTA, OH Tested Unique Number : 10898609 : 28 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: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (740)373-5570

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