

[7937] Machine Id JOHN DEERE 210G 3601411 (S/N 520918)

Pump Drive

JOHN DEERE GL-5 80W90 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: 7937)

WEAR

All component wear rates are normal.

CONTAMINATION

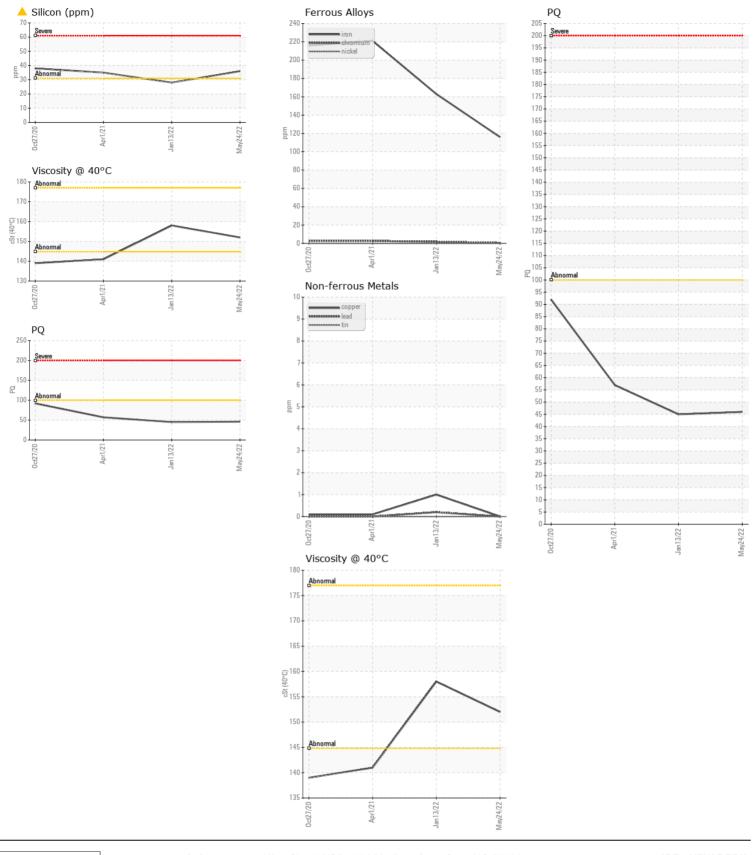
Elemental level of silicon (Si) above normal.

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		JR0130630	JR0033739	JR0078865
Sample Date		Client Info		24 May 2022	13 Jan 2022	01 Apr 2021
Machine Age	hrs	Client Info		10484	9975	9036
Oil Age	hrs	Client Info		509	939	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
					45	
PQ		ASTM D8184		46	45	57
Iron	ppm	ASTM D5185m	>151	116	163	221
Chromium	ppm	ASTM D5185m	>11	<1	2	3
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>21	5	4	4
Lead	ppm	ASTM D5185m	>51	0	<1	0
Copper	ppm	ASTM D5185m	>51	0	1	<1
Tin	ppm	ASTM D5185m		0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal Silicon		*Visual ASTM D5185m	NONE	NONE	NONE 28	NONE 35
	ppm					
Silicon		ASTM D5185m	>31	▲ 36	28	35
Silicon Potassium	ppm	ASTM D5185m ASTM D5185m	>31 >20	▲ 36 0	28 <1	35 1
Silicon Potassium Water	ppm ppm	ASTM D5185m ASTM D5185m WC Method	>31 >20 >0.1	▲ 36 0 NEG	28 <1 NEG	35 1 NEG
Silicon Potassium Water Silt	ppm ppm scalar	ASTM D5185m ASTM D5185m WC Method *Visual	>31 >20 >0.1 NONE	 36 0 NEG NONE 	28 <1 NEG NONE	35 1 NEG NONE
Silicon Potassium Water Silt Debris	ppm ppm scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual	>31 >20 >0.1 NONE NONE	A 36 0 NEG NONE NONE	28 <1 NEG NONE NONE	35 1 NEG NONE NONE
Silicon Potassium Water Silt Debris Sand/Dirt	ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual	>31 >20 >0.1 NONE NONE NONE	36 0 NEG NONE NONE NONE	28 <1 NEG NONE NONE NONE	35 1 NEG 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	>31 >20 >0.1 NONE NONE NONE NORML	36 0 NEG NONE NONE NONE NONE NONE	28 <1 NEG NONE NONE NONE NORML	35 1 NEG NONE 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	>31 >20 >0.1 NONE NONE NORML NORML >0.1	 36 0 NEG NONE NONE NORE NORML NEG 	28 <1 NEG NONE NONE NONE NORML NEG	35 1 NEG NONE NONE NORM NORML NEG
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>31 >20 >0.1 NONE NONE NORML NORML	 36 0 NEG NONE NONE NORML NORML NEG 2 	28 <1 NEG NONE NONE NORML NORML NEG 0	35 1 NEG NONE NONE NORML NORML NEG 3
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm ppm scalar scalar scalar scalar scalar scalar gpm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>31 >20 >0.1 NONE NONE NORML NORML >0.1	 36 0 NEG NONE NONE NORML NORML NEG 2 157 	28 <1 NEG NONE NONE NORML NORML NEG 0 84	35 1 NEG NONE NONE NORML NORML NEG 3 27
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>31 >20 >0.1 NONE NONE NORML NORML >0.1	 36 0 NEG NONE NONE NORML NORML NEG 2 157 0 	28 <1 NEG NONE NONE NORML NORML NEG 0 84 0	35 1 NEG NONE NONE NORML NORML NEG 3 27 <1
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	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	>31 >20 >0.1 NONE NONE NORML NORML >0.1	 36 0 NEG NONE NONE NORML NORML NEG 2 157 0 0 	28 <1 NEG NONE NONE NORML NORML NEG 0 84 0 2	35 1 NEG NONE NONE NORML NORML NEG 3 27 <1 13
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm ppm scalar scalar scalar scalar scalar gpm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>31 >20 >0.1 NONE NONE NORML NORML >0.1	 36 0 NEG NONE NONE NORML NORML NEG 2 157 0 0 <1 	28 <1 NEG NONE NONE NORML NORML NEG 0 84 0 2 2	35 1 NEG NONE NONE NORML NORML NEG 3 27 <1 13 2
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	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>31 >20 >0.1 NONE NONE NORML NORML >0.1	 36 0 NEG NONE NONE NORML NORML NEG 2 157 0 0 <1 0 	28 <1 NEG NONE NONE NORML NORML NEG 0 84 0 2 2 2 9	35 1 NEG NONE NONE NORML NORML NEG 3 27 <1 13 2 48
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	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>31 >20 >0.1 NONE NONE NORML NORML >0.1	 36 0 NEG NONE NONE NORML NORML NORML 157 0 2 157 0 157 0 15 	28 <1 NEG NONE NONE NORML NORML NEG 0 84 0 2 2 2 9 79	35 1 NEG NONE NONE NORML NORML NEG 3 27 <1 13 2 48 87
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm pm 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 ASTM D5185m ASTM D5185m	>31 >20 >0.1 NONE NONE NORML NORML >0.1	 36 0 NEG NONE NONE NORML NORML NEG 2 157 0 0 <1 0 15 923 	28 <1 NEG NONE NONE NORML NORML NEG 0 844 0 2 2 2 9 79 1378	35 1 NEG NONE NONE NORML NORML NEG 3 27 <1 13 2 48 87 1670
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm 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 ASTM D5185m ASTM D5185m ASTM D5185m	>31 >20 >0.1 NONE NONE NORML NORML >0.1	 36 0 NEG NONE NONE NORML NORML NEG 2 157 0 0 <1 0 15 923 9 	28 <1 NEG NONE NONE NORML NORML NEG 0 84 0 2 2 2 9 79	35 1 NEG NONE NONE NORML NORML NEG 3 27 <1 13 2 48 87 1670 89
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm pm 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 ASTM D5185m ASTM D5185m	>31 >20 >0.1 NONE NONE NORML NORML >0.1	 36 0 NEG NONE NONE NORML NORML NEG 2 157 0 0 <1 0 15 923 	28 <1 NEG NONE NONE NORML NORML NEG 0 844 0 2 2 9 2 9 79 1378	35 1 NEG NONE NONE NORML NORML NEG 3 27 <1 13 2 48 87 1670

Submitted By: TECHNICIAN ACCOUNT



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - NEW BERN** : JR0130630 3816 MARTIN LUTHER KING BLVD Sample No. Received : 26 May 2022 Lab Number : 05555123 NEW BERN, NC Tested : 27 May 2022 : 29 May 2022 - Don Baldridge Unique Number : 9994511 US 28562 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: JEFF BROWN Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. jeff.brown@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (252)638-5838 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (252)638-2949

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