

Machine Id JOHN DEERE 317G 1T0317GJLJJ328487 Component Left Final Drive Fluid JOHN DEERE HYDRAU (--- 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. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

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

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test		Method	l imit/Abn	Current	History1	History2
Sample Number	UOIVI	Client Info	LIIII(ADII	ID0212275	IB0207075	IR0135601
Sample Number		Client Info		11 Jul 2024	10 Mar 2024	04 Jun 2022
Maghing Age	bro	Client Info		11 JUI 2024	19 IVIAI 2024	24 JUII 2022
	hre	Client Info		4249	001	2027
	nrs			431	991	987
Fliter Age	nrs			0	0	0
Oil Changed				Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	SEVERE
PQ		ASTM D8184	>1250	64	207	72
Iron	ppm	ASTM D5185m	>750	599	1 768	1 113
Chromium	ppm	ASTM D5185m	>9	17	4 37	4 34
Nickel	ppm	ASTM D5185m	>10	3	8	3
Titanium	ppm	ASTM D5185m		8	26	15
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>40	119	9391	120
Lead	ppm	ASTM D5185m	>15	0	0	<1
Copper	ppm	ASTM D5185m	>40	3	4	5
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 302	1 063	▲ 657
Silicon Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>75 >20	▲ 302 26	▲ 1063 86	▲ 65758
Silicon Potassium Water	ppm ppm	ASTM D5185m ASTM D5185m WC Method	>75 >20 >0.075	▲ 302 26 NEG	▲ 1063 86 NEG	▲ 657 58 NEG
Silicon Potassium Water Silt	ppm ppm scalar	ASTM D5185m ASTM D5185m WC Method *Visual	>75 >20 >0.075 NONE	 302 26 NEG NONE 	 1063 86 NEG NONE 	 657 58 NEG NONE
Silicon Potassium Water Silt Debris	ppm ppm scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual	>75 >20 >0.075 NONE NONE	 302 26 NEG NONE NONE 	 1063 86 NEG NONE NONE 	 657 58 NEG NONE NONE
Silicon Potassium Water Silt Debris Sand/Dirt	ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual	>75 >20 >0.075 NONE NONE NONE	 302 26 NEG NONE NONE NONE 	 1063 86 NEG NONE NONE NONE 	 657 58 NEG NONE 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	>75 >20 >0.075 NONE NONE NONE NORML	 302 26 NEG NONE NONE NONE NORML 	 1063 86 NEG NONE NONE NONE NORE 	 657 58 NEG NONE NONE NONE NORE NORML
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor	ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>75 >20 >0.075 NONE NONE NONE NORML	 302 26 NEG NONE NONE NONE NORML NORML 	 1063 86 NEG NONE NONE NONE NORML NORML 	 657 58 NEG NONE NONE NONE NORE NORML 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	>75 >20 >0.075 NONE NONE NORML NORML >0.075	 302 26 NEG NONE NONE NORML NEG 	 1063 86 NEG NONE NONE NORML NEG 	 657 58 NEG NONE NONE NORML NEG
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>75 >20 >0.075 NONE NONE NORML NORML >0.075	 302 26 NEG NONE NONE NORE NORML NORML NEG 6 	 1063 86 NEG NONE NONE NORML NORML NEG 24 	 657 58 NEG NONE NONE NORML NORML NEG 17
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>75 >20 >0.075 NONE NONE NORML NORML >0.075 >51	 302 26 NEG NONE NONE NORML NORML NEG 6 <1 	 1063 86 NEG NONE NONE NORML NORML NEG 24 <1 	 657 58 NEG NONE NONE NORML NORML NEG 17 0
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>75 >20 >0.075 NONE NONE NORML >0.075 >51	 302 26 NEG NONE NORE NORML NORML NEG 6 <1 0 	 1063 86 NEG NONE NONE NORML NORML NEG 24 <1 3 	 657 58 NEG NONE NONE NORML NORML NEG 17 0 3
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>75 >20 >0.075 NONE NONE NORML NORML >0.075 >51	 302 26 NEG NONE NONE NORML NORML NORML NEG 6 <1 0 2 	 1063 86 NEG NONE NONE NORML NORML NORML NEG 24 <1 3 5 	 657 58 NEG NONE NONE NORML NORML NORML NEG 17 0 3 4
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm scalar 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	>75 >20 >0.075 NONE NONE NORML NORML >0.075 >51	 302 26 NEG NONE NONE NORML NORML NEG 6 <1 0 2 5 	 1063 86 NEG NONE NONE NORML NORML NEG 24 <1 3 5 15 	 657 58 NEG NONE NONE NORML NORML NEG 17 0 3 4 12
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	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 ASTM D5185m	>75 >20 >0.075 NONE NONE NORML >0.075 >51	 302 26 NEG NONE NONE NORML NORML NEG 6 <1 0 2 5 14 	 1063 86 NEG NONE NONE NORML NORML NEG 24 <1 3 5 15 39 	 657 58 NEG NONE NONE NORML NORML NEG 17 0 3 4 12 23
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm scalar 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	 >75 >20 >0.075 NONE NONE NORML NORML >0.075 >51 	 302 26 NEG NONE NONE NORML NORML NEG 6 <1 0 2 5 14 88 	 1063 86 NEG NONE NONE NORML NORML NORML NEG 24 <1 3 5 15 39 184 	 657 58 NEG NONE NONE NORML NORML NORML 17 0 3 4 12 23 84
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm scalar 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	 >75 >20 >0.075 NONE NONE NORML NORML >0.075 >51 >51 87 727 	 302 26 NEG NONE NORE NORML NORML NEG 6 <1 0 2 5 14 88 619 	 1063 86 NEG NONE NONE NORML NORML NEG 24 21 3 5 15 39 184 623 	 657 58 NEG NONE NONE NORML NORML NEG 17 0 3 4 12 23 84 546
Silicon 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 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	>75 >20 >0.075 NONE NONE NORML >0.075 >51	 302 26 NEG NONE NONE NORML NORML NEG 6 <1 0 2 5 14 88 619 816 	 1063 86 NEG NONE NONE NORML NORML NEG 24 <1 3 5 15 39 184 623 824 	 657 58 NEG NONE NONE NORML NORML NEG 17 0 3 4 12 23 84 546 736
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm scalar scalar scalar scalar scalar scalar ppm 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 ASTM D5185m	>75 >20 >0.075 NONE NONE NONE NORM >0.075 >51 >51 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1 S1	 302 26 NEG NONE NONE NORML NORML NEG 6 <1 0 2 5 14 88 619 816 5233 	 1063 86 NEG NONE NONE NORML NORML NEG 24 21 3 5 15 39 184 623 824 1981 	 657 58 NEG NONE NONE NORML NORML NEG 17 0 3 4 12 23 84 546 736 1920

Contact/Location: MARK ROSS - TENCAN



Sample No. : JR0218875 Received PO BOX 2379 : 12 Jul 2024 : 06235181 Lab Number Tested CANDLER, NC : 15 Jul 2024 Diagnosed Unique Number : 11124015 : 15 Jul 2024 - Sean Felton US 28715 Test Package : CONST (Additional Tests: PQ) Contact: MARK ROSS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. mark@tennoca.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (828)665-8331 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: