

[W67860] Machine Id HITACHI 300LC 1FFDDP70VKF840558 Component Left Final Drive Fluid JOHN DEERE GL-5 80W90 (2 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. (Customer Sample Comment: W67860)

WEAR

Gear wear is indicated.

CONTAMINATION

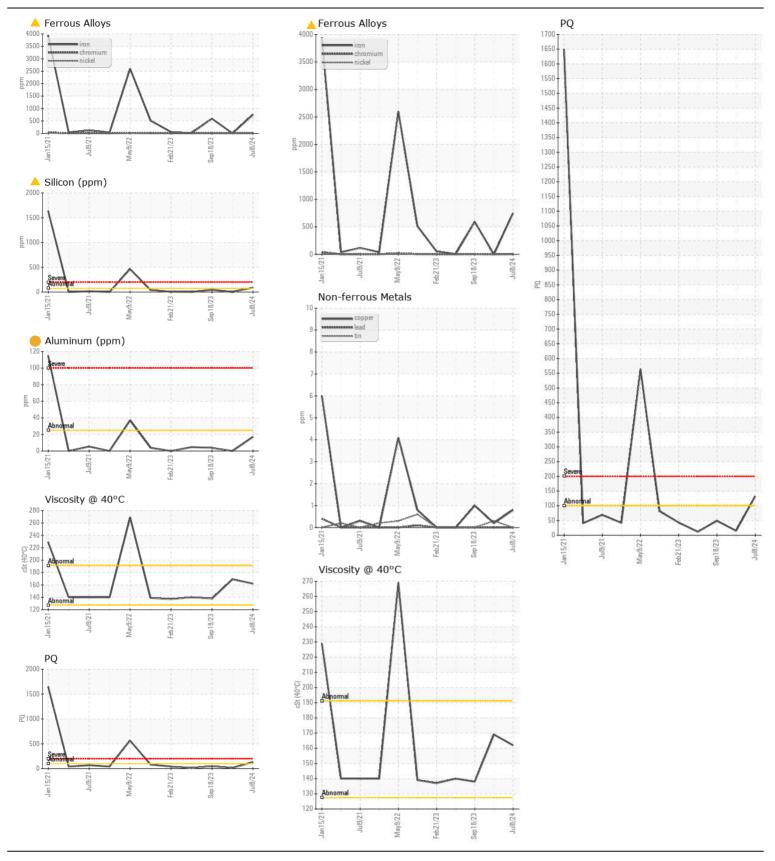
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.

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		JR0205732	JR0203878	JR0178098
Sample Date		Client Info		08 Jul 2024	28 Feb 2024	18 Sep 2023
Machine Age	hrs	Client Info		7032	6947	6947
Oil Age	hrs	Client Info		7032	0	4506
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
PQ		ASTM D8184		132	15	49
Iron	0000	ASTM D0104	>500	749	0	49
	ppm				-	
Chromium	ppm	ASTM D5185m	>10	5	<1	3
Nickel	ppm	ASTM D5185m	>10	0	0	2
Titanium	ppm	ASTM D5185m		1	0	<1
Silver	ppm	ASTM D5185m	05	0	0	0
Aluminum	ppm	ASTM D5185m	>25	17	0	4
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	<1	<1	1
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	A 89	1	46
					1	
Potassium	ppm	ASTM D5185m	>20	2	0	1
Potassium Water	ppm	ASTM D5185m WC Method	>20 >0.2			1 NEG
	ppm scalar			2	0	
Water		WC Method	>0.2	2 NEG	0 NEG	NEG
Water Silt	scalar	WC Method *Visual	>0.2 NONE	2 NEG NONE	0 NEG NONE	NEG MODER
Water Silt Debris	scalar scalar	WC Method *Visual *Visual	>0.2 NONE NONE	2 NEG NONE NONE	0 NEG NONE NONE	NEG MODER NONE
Water Silt Debris Sand/Dirt	scalar scalar scalar	WC Method *Visual *Visual *Visual	>0.2 NONE NONE NONE	2 NEG NONE NONE NONE	0 NEG NONE NONE	NEG MODER NONE NONE
Water Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual	>0.2 NONE NONE NONE NORML	2 NEG NONE NONE NONE NORML	0 NEG NONE NONE NONE NORML	NEG MODER NONE NONE
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual *Visual	>0.2 NONE NONE NORML NORML	2 NEG NONE NONE NORML NORML NEG	0 NEG NONE NONE NORML NORML NEG	NEG MODER NONE NORML NORML NEG
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar scalar scalar ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>0.2 NONE NONE NORML NORML	2 NEG NONE NONE NORML NORML NEG 2	0 NEG NONE NONE NORML NORML NEG	NEG MODER NONE NORML NORML NEG
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar scalar scalar ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>0.2 NONE NONE NORML NORML	2 NEG NONE NONE NORML NORML NEG 2 2	0 NEG NONE NONE NORML NORML NEG <1 30	NEG MODER NONE NORML NORML NEG 1 2
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar scalar scalar ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>0.2 NONE NONE NORML NORML	2 NEG NONE NONE NORML NORML NEG 2 2 2	0 NEG NONE NONE NORML NORML NEG <1 30 0	NEG MODER NONE NORML NORML NEG 1 2 0
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar scalar scalar ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>0.2 NONE NONE NORML NORML	2 NEG NONE NONE NORML NORML NEG 2 2	0 NEG NONE NONE NORML NORML NEG <1 30	NEG MODER NONE NORML NORML NEG 1 2
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>0.2 NONE NONE NORML NORML	2 NEG NONE NONE NORML NORML NEG 2 2 2 0 0 0	0 NEG NONE NONE NORML NORML NEG <1 30 0 0 0	NEG MODER NONE NORML NORML NEG 1 2 0 0 0 3
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>0.2 NONE NONE NORML NORML	2 NEG NONE NONE NORML NORML NEG 2 2 2 2 0 0 0 4 2	0 NEG NONE NONE NORML NORML NEG <1 30 0 0 0 <1 9	NEG MODER NONE NORML NORML NEG 1 2 0 0
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>0.2 NONE NONE NORML NORML	2 NEG NONE NONE NORML NORML 2 2 2 2 0 0 0 4 2 9	0 NEG NONE NONE NORML NORML NEG <1 30 0 0 0 <1 9 9 10	NEG MODER NONE NORML NORML NEG 1 2 0 0 0 3 0 0 3 0 0 0
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>0.2 NONE NONE NORML NORML	2 NEG NONE NONE NORML NORML NEG 2 2 2 2 0 0 0 4 2	0 NEG NONE NONE NORML NORML NEG <1 30 0 0 0 <1 9	NEG MODER NONE NORML NORML NEG 1 2 0 0 0 3 0 3 0
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>0.2 NONE NONE NORML NORML	2 NEG NONE NONE NORML NORML NEG 2 2 2 0 0 0 4 2 9 639 2	0 NEG NONE NONE NORML NORML NEG <1 30 0 0 (1 30 0 (1 9 10 826 0	NEG MODER NONE NORML NORML NEG 1 2 0 3 0 0 264
Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>0.2 NONE NONE NORML NORML	2 NEG NONE NONE NORML NORML 2 2 2 0 0 0 4 2 9 639	0 NEG NONE NONE NORML NORML NEG <1 30 0 0 (1 9 10 826	NEG MODER NONE NORML NORML NEG 1 2 0 0 0 3 0 0 3 0 0 0 264 0

Submitted By: Mike Young - CHARLOTTE SHOP



: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Laboratory **JRE - CHARLOTTE** : JR0205732 9550 STATESVILLE ROAD Sample No. Received : 10 Jul 2024 : 06232525 Lab Number CHARLOTTE, NC Tested : 11 Jul 2024 : 12 Jul 2024 - Sean Felton US 28269 Unique Number : 11116018 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: CHARLOTTE SHOP Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. myoung@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (704)597-0211 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (704)596-6198

Submitted By: Mike Young - CHARLOTTE SHOP Page 2 of 2