

### [46123] HITACHI 350LC-6 1FFDDR70CKF940744 Component Right Final Drive

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

# RECOMMENDATION

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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**

Gear wear is indicated.

# CONTAMINATION

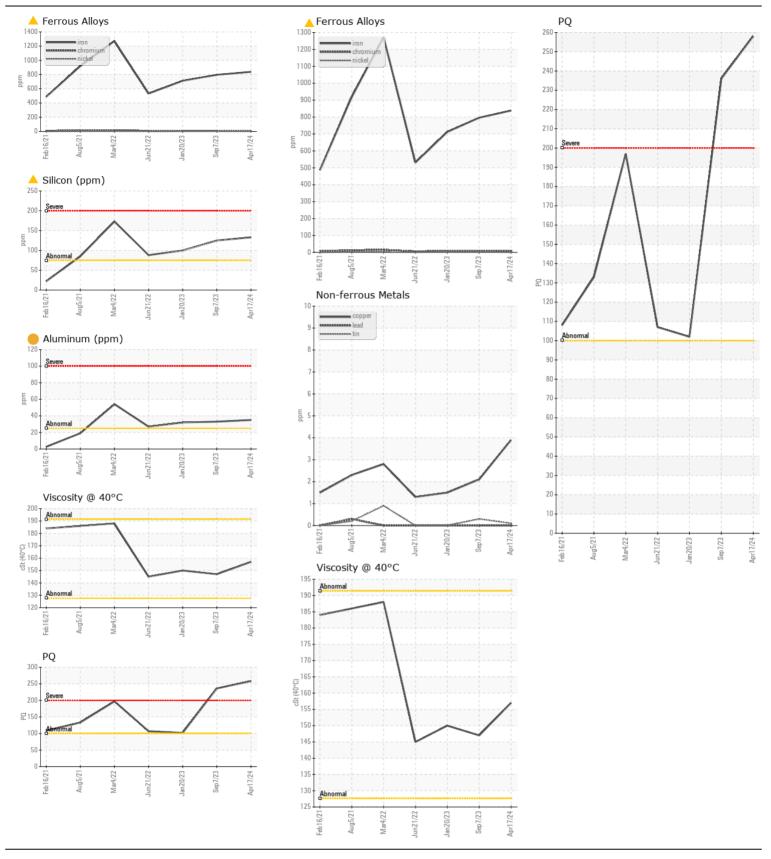
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.

# 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		JR0211176	JR0184002	JR0157344
	Sample Date		Client Info		17 Apr 2024	07 Sep 2023	20 Jan 2023
	Machine Age	hrs	Client Info		3936	3457	2943
	Oil Age	hrs	Client Info		2534	1500	2561
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Not Changd	Not Changd
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
							100
	PQ		ASTM D8184	500	258	236	102
	Iron	ppm	ASTM D5185m	>500	<mark>▲</mark> 838	796	712
	Chromium	ppm	ASTM D5185m	>10	8	8	7
	Nickel	ppm	ASTM D5185m	>10	<1	1	1
	Titanium	ppm	ASTM D5185m		3	3	2
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	935	33	32
	Lead	ppm	ASTM D5185m	>25	0	0	0
	Copper	ppm	ASTM D5185m	>50	4	2	2
	Tin	ppm	ASTM D5185m	>10	<1	<1	0
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Silicon	ppm	ASTM D5185m	>75	<b>1</b> 33	125	<b>1</b> 00
	Potassium	ppm	ASTM D5185m	>20	8	7	6
		ppm	no nin Borroom				
	Water		WC Method	>0.2	-		
	Water Silt	scalar	WC Method	>0.2 NONE	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NEG NONE	NEG NONE	NEG
	Silt Debris	scalar	*Visual *Visual	NONE	NEG NONE NONE	NEG NONE NONE	NEG NONE MODER
	Silt Debris Sand/Dirt		*Visual *Visual *Visual	NONE	NEG NONE NONE NONE	NEG NONE NONE NONE	NEG NONE MODER NONE
	Silt Debris	scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NONE NORML	NEG NONE NONE NONE NORML	NEG NONE NONE NORML	NEG NONE MODER NONE NORML
	Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual	NONE NONE NORML NORML	NEG NONE NONE NONE NORML NORML	NEG NONE NONE NORML NORML	NEG NONE MODER NONE NORML NORML
	Silt Debris Sand/Dirt Appearance Odor	scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NONE NORML	NEG NONE NONE NONE NORML	NEG NONE NONE NORML	NEG NONE MODER NONE NORML
	Silt Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual	NONE NONE NORML NORML	NEG NONE NONE NONE NORML NORML	NEG NONE NONE NORML NORML	NEG NONE MODER NONE NORML NORML
	Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual	NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG	NEG NONE NONE NORML NORML NEG	NEG NONE MODER NONE NORML NORML NEG
	Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar scalar ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG	NEG NONE NONE NORML NORML NEG 3	NEG NONE NONE NORML NORML NEG 2
	Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar scalar ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG 4	NEG NONE NONE NORML NORML NEG 3 12	NEG NONE MODER NORML NORML NEG 2 11
	Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG 4 14 3	NEG NONE NONE NORML NORML NEG 3 12 0	NEG NONE MODER NORML NORML NEG 2 11 4
	Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG 4 14 3 <	NEG NONE NONE NORML NORML NEG 3 12 0 <1	NEG NONE NORML NORML NEG 2 111 4 <
	Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG 4 14 3 <1 10	NEG NONE NONE NORML NORML NEG 3 12 0 <1 8	NEG NONE NORML NORML NEG 2 11 4 < 7
	Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar scalar scalar scalar ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG 4 14 3 <1 10 9	NEG NONE NONE NORML NORML NEG 3 12 0 <1 8 4	NEG NONE NORML NORML NEG 2 11 4 < <1 7 5
	Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG 4 14 3 <1 10 9 19	NEG NONE NONE NORML NEG 3 12 0 <1 8 4 32	NEG   NONE   MODER   NORML   NORML   NEG   2   11   4   <11   7   5   9
	Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Barium Malybdenum Manganese Magnesium Calcium Phosphorus	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG 4 14 3 <1 10 9 19 19 343	NEG NONE NONE NORML NORML NEG 3 12 0 <1 8 4 32 345	NEG NONE NORML NORML NEG 2 111 4 2 11 4 5 9 354
	Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium Phosphorus Zinc	scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG 4 14 3 <1 10 9 19 19 343 16	NEG NONE NONE NORML NORML NEG 3 12 0 <1 8 4 32 345 11	NEG NONE NORML NORML NEG 2 11 4 2 11 4 5 9 354 17

Submitted By: TECHNICIAN ACCOUNT



: WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - MANASSAS PARK** Laboratory : JR0211176 9107 OWENS DRIVE Sample No. Received : 22 Apr 2024 Ē : 06156272 MANASSAS PARK, VA Lab Number Tested : 23 Apr 2024 Unique Number : 10991695 : 24 Apr 2024 - Sean Felton US 20111 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: DON VEST Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dvest@jamesriverequipment.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (703)631-8500 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (703)631-4715

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