



[CASTLE EQUIPMENT CO] JOHN DEERE 210G 1FF210GXJJF526375 Left Final Drive

JOHN DEERE GL-5 80W90 (--- 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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

The iron, chrome and nickel are levels are severe. Gear wear is indicated.

CONTAMINATION

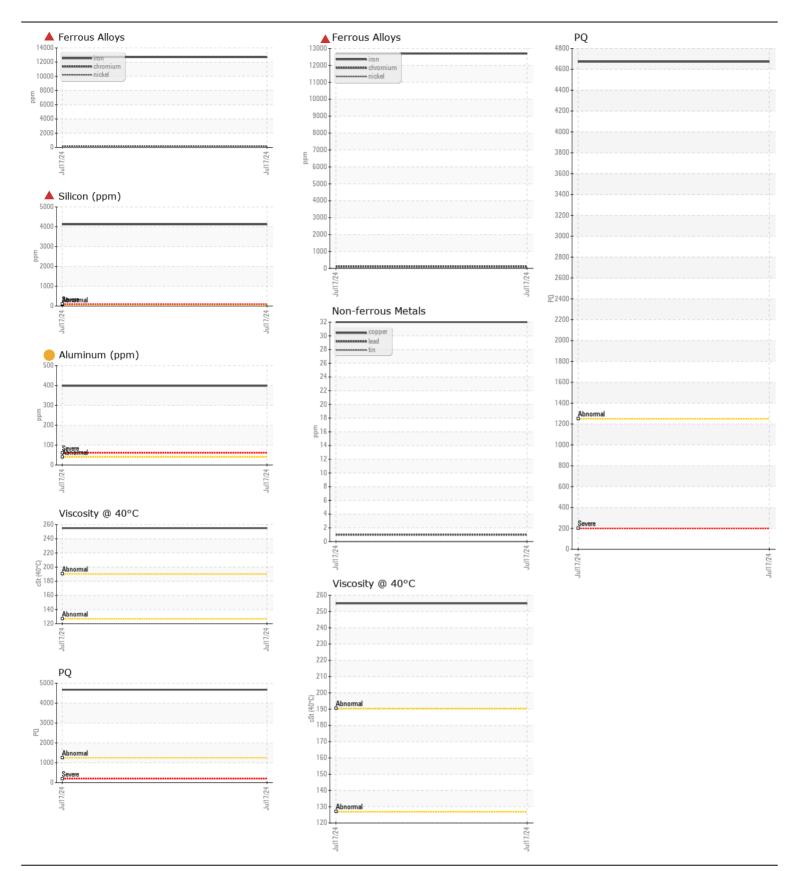
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.

FLUID CONDITION

The oil is no longer serviceable.

JAL)						
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0224538		
Sample Date		Client Info		17 Jul 2024		
Machine Age	hrs	Client Info		3962		
Oil Age	hrs	Client Info		2000		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		N/A		
Sample Status				SEVERE		
PQ		ASTM D8184	>1250	4673		
Iron	ppm	ASTM D5185m	>750	12696		
Chromium	ppm	ASTM D5185m	>9	1 21		
Nickel	ppm	ASTM D5185m	>10	4 24		
Titanium	ppm	ASTM D5185m		65		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>40	9398		
Lead	ppm	ASTM D5185m	>15	1		
Copper	ppm	ASTM D5185m	>40	32		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		4		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>75	4 119		
Potassium	ppm	ASTM D5185m	>20	112		
Water	ррш	WC Method	>0.075	NEG		
Silt	scalar	*Visual	NONE	NONE		
Debris	scalar	*Visual	NONE	NONE		
Sand/Dirt	scalar	*Visual	NONE	NONE		
Appearance	scalar	*Visual	NORML	NORML		
Odor	scalar	*Visual	NORML	NORML		
Emulsified Water	scalar	*Visual	>0.075	NEG		
			20.070			
Sodium	ppm	ASTM D5185m	>51	16		
Boron	ppm	ASTM D5185m		91		
Barium	ppm	ASTM D5185m		3		
Molybdenum	ppm	ASTM D5185m		11		
Manganese	ppm	ASTM D5185m		105		
Magnesium	ppm	ASTM D5185m		17		
Calcium	ppm	ASTM D5185m		17		
Phosphorus	ppm	ASTM D5185m		423		
Zinc	ppm	ASTM D5185m		49		
Sulfur	ppm	ASTM D5185m		56380		
Visc @ 40°C	cSt	ASTM D445		255		
130 @ 40 0				<hr/> /		

Contact/Location: DAVID ZIEG - JAMASH



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - ASHLAND** Sample No. : JR0224538 Received 11047 LEADBETTER RD : 18 Jul 2024 ĕ Lab Number : 06240572 ASHLAND, VA Tested : 19 Jul 2024 : 20 Jul 2024 - Don Baldridge US 23005 Unique Number : 11129406 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: DAVID ZIEG Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. dzieg@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (804)798-6001 F: (804)798-0292 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: DAVID ZIEG - JAMASH Page 2 of 2