WEAR CONTAMINATION FLUID CONDITION

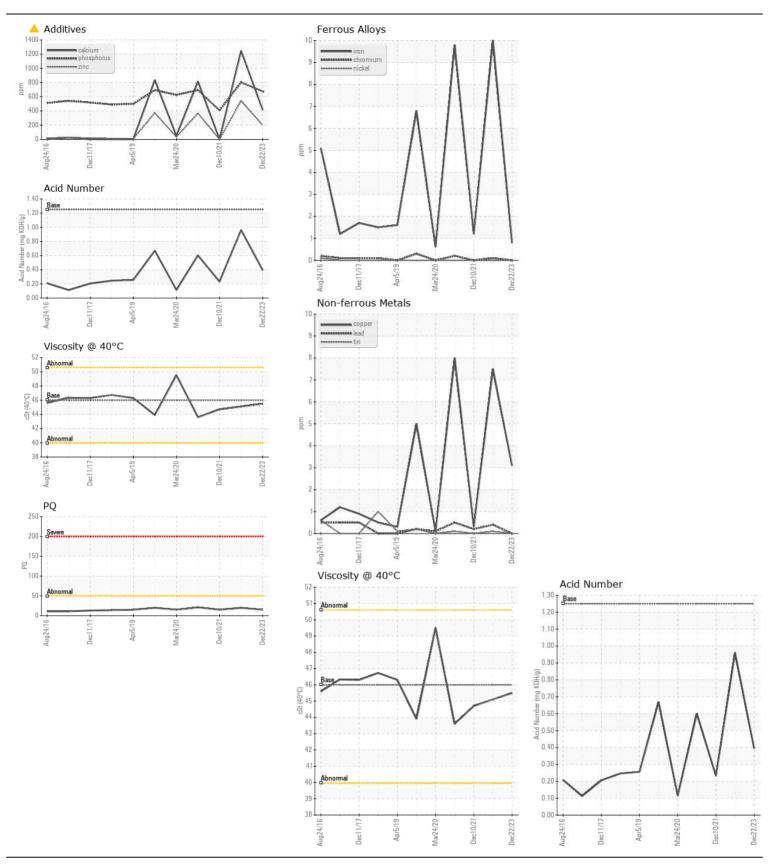
NORMAL ABNORMAL ABNORMAL



JOHN DEERE 210G 1FF210GXTFF523690

Component Hydraulic System

ENVIRONMENTAL OIL ISO 46 (GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOOMMENDATION	Sample Number	00	Client Info		JR0198548	JR0135300	JR0102086
Recommend drain oil if not already done. Reduce drain interval to	Sample Date		Client Info		22 Dec 2023	28 Jul 2022	10 Dec 2021
2000 hours or drain and flush and use recommended zinc free oil. The	Machine Age	hrs	Client Info		5950	5052	4555
filter change at the time of sampling has been noted. We were unable	Oil Age	hrs	Client Info		431	0	0
to perform a particle count due to a high concentration of particles	Filter Age	hrs	Client Info		0	0	0
present in this sample.	Oil Changed		Client Info		Not Changd	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR	PQ		ASTM D8184		15	20	15
All component wear rates are normal.	Iron	ppm	ASTM D5185m		<1	10	1
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	<1	0
	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		<1	3	1
	Lead	ppm	ASTM D5185m		0	<1	<1
	Copper	ppm	ASTM D5185m		3	8	<1
	Tin	ppm	ASTM D5185m	>5	0	<1	0
	Vanadium White Metal	ppm	*Visual	NONE	0 NONE	0 NONE	0 NONE
	Yellow Metal	scalar scalar	*Visual	NONE	NONE NONE	NONE	NONE
			visuai		INOINE	INOINL	INOINL
CONTAMINATION	Silicon	ppm	ASTM D5185m		1	3	<1
Moderate concentration of visible dirt/debris present in the oil.	Potassium	ppm	ASTM D5185m		<1	2	0
	Water		WC Method		NEG	NEG	NEG
	Particles >4µm		ASTM D7647			16248	3907
	Particles >6µm		ASTM D7647			2446	887
	Particles >14µm		ASTM D7647			87	127
	Particles >21µm		ASTM D7647 ASTM D7647	>160		18 1	41
	Particles >38µm Particles >71µm		ASTM D7647 ASTM D7647			0	0
	Oil Cleanliness			>23/21/16		21/18/14	19/17/14
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	▲ MODER	LIGHT	LIGHT
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.075	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	0	0
Zinc level above manufacturer's recommendations. The AN level is acceptable for this fluid.	Boron	ppm	ASTM D5185m		0	5	<1
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	5	0	2	0
	Manganese	ppm	ASTM D5185m	-	<1	<1	0
	Magnesium	ppm	ASTM D5185m		4	12	0
	Calcium	ppm	ASTM D5185m		415	1246	<1
	Phosphorus	ppm	ASTM D5185m		674	802	407
	Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	10	▲ 198 615	▲ 542 1913	0 1111
	Acid Number (AN)	ppm mg KOH/g	ASTM D3163111 ASTM D8045		615 0.394	0.96	0.232
	Visc @ 40°C	cSt	ASTM D6045		45.5	45.1	44.7
	V130 @ 40 0	COL	AUTIVI D773	10	70.0	70.1	77.7







Certificate L2367

Laboratory

Sample No. Lab Number **Unique Number**

: JR0198548 : 06056585 : 10822534

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 10 Jan 2024 Diagnosed : 11 Jan 2024

: Don Baldridge Diagnostician

Test Package : CONST (Additional Tests: PQ)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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