



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL



Machine Id
JOHN DEERE 210G 1FF210GXVJF525584
 Component
Hydraulic System
 Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)

RECOMMENDATION

Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0223085	JR0205048	JR0194277
Sample Date		Client Info		02 Jul 2024	15 Apr 2024	14 Dec 2023
Machine Age	hrs	Client Info		10103	9470	8963
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

The iron level is abnormal. All other component wear rates are normal.

PQ		ASTM D8184	>50	32	35	32
Iron	ppm	ASTM D5185m	>32	▲ 62	▲ 56	▲ 42
Chromium	ppm	ASTM D5185m	>9	9	6	4
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	>9	2	1	1
Lead	ppm	ASTM D5185m	>28	0	0	0
Copper	ppm	ASTM D5185m	>50	4	4	3
Tin	ppm	ASTM D5185m	>5	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

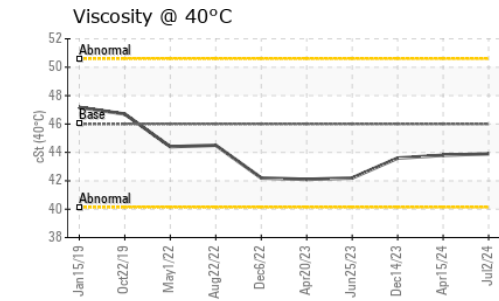
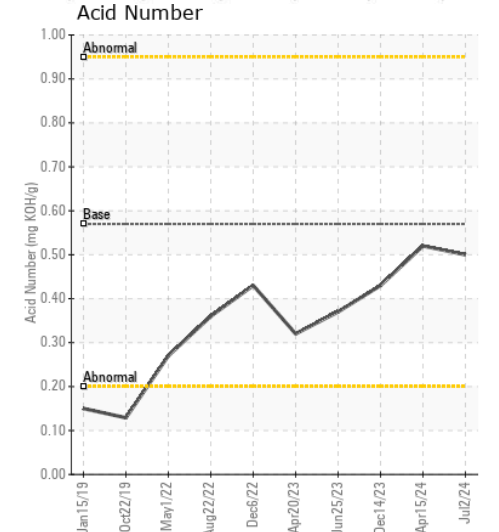
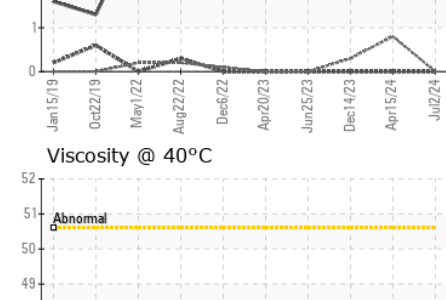
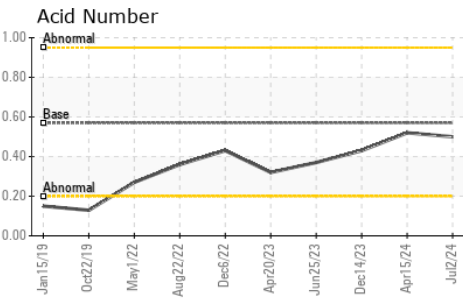
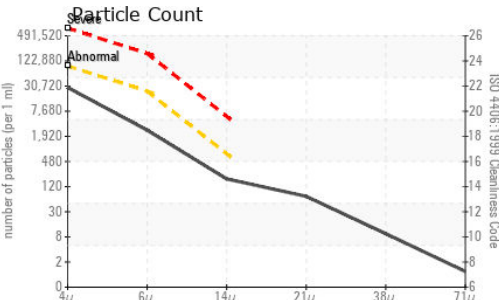
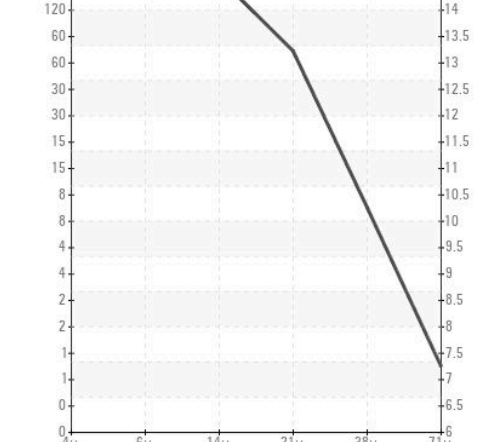
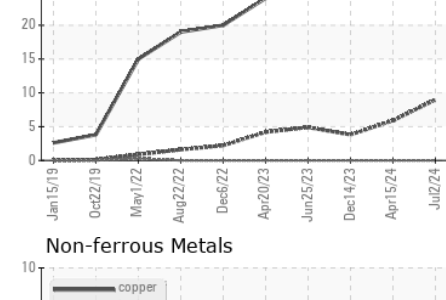
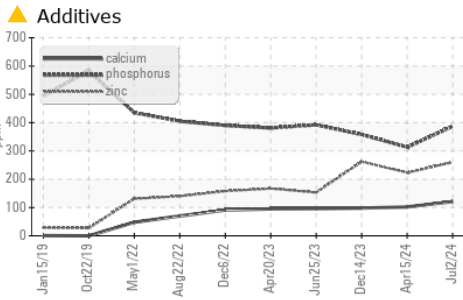
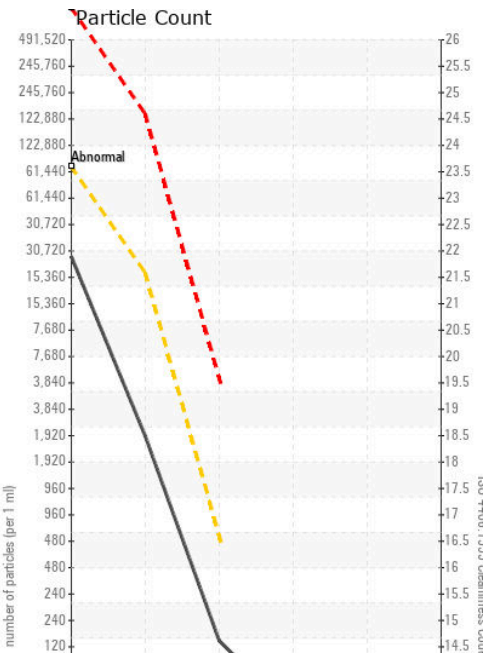
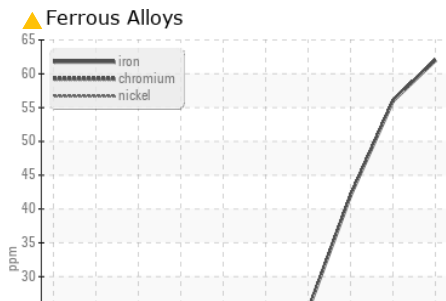
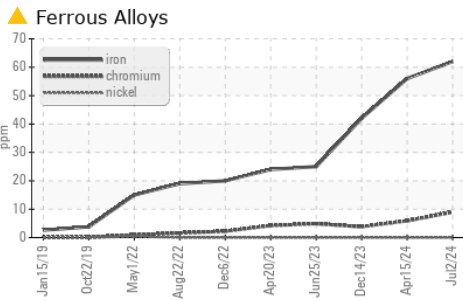
The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>11	7	7	7
Potassium	ppm	ASTM D5185m	>20	5	4	6
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	24739	6785	18557
Particles >6µm		ASTM D7647	>20000	2356	518	333
Particles >14µm		ASTM D7647	>640	162	30	12
Particles >21µm		ASTM D7647	>160	62	8	5
Particles >38µm		ASTM D7647	>40	8	1	0
Particles >71µm		ASTM D7647	>10	1	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	22/18/15	20/16/12	21/16/11
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	NEG

FLUID CONDITION

Zinc level above manufacturer's recommendations. The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m	>21	4	5	3
Boron	ppm	ASTM D5185m	5	3	4	4
Barium	ppm	ASTM D5185m	5	<1	0	0
Molybdenum	ppm	ASTM D5185m	5	8	8	7
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	25	23	18	25
Calcium	ppm	ASTM D5185m	200	121	102	98
Phosphorus	ppm	ASTM D5185m	300	387	313	358
Zinc	ppm	ASTM D5185m	370	▲ 260	▲ 223	▲ 262
Sulfur	ppm	ASTM D5185m	2500	1266	1108	1033
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.50	0.52	0.43
Visc @ 40°C	cSt	ASTM D445	46	43.9	43.8	43.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0223085 **Received** : 03 Jul 2024
Lab Number : 06227293 **Tested** : 05 Jul 2024
Unique Number : 11110786 **Diagnosed** : 05 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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)