



Machine Id
JOHN DEERE 210G 1FF210GXPHF524889
Component
Right Final Drive
Fluid
JOHN DEERE GL-5 80W90 (--- QTS)

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0207906	JR0185107	JR0168329
Sample Date		Client Info		08 Apr 2024	04 Oct 2023	15 May 2023
Machine Age	hrs	Client Info		7910	7345	6885
Oil Age	hrs	Client Info		975	410	1086
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	SEVERE

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	542	252	686
Iron	ppm	ASTM D5185m	>750	987	557	▲ 1793
Chromium	ppm	ASTM D5185m	>9	9	4	▲ 17
Nickel	ppm	ASTM D5185m	>10	3	<1	3
Titanium	ppm	ASTM D5185m		5	3	10
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	● 57	● 33	● 140
Lead	ppm	ASTM D5185m	>15	2	0	0
Copper	ppm	ASTM D5185m	>40	2	<1	3
Tin	ppm	ASTM D5185m	>10	1	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

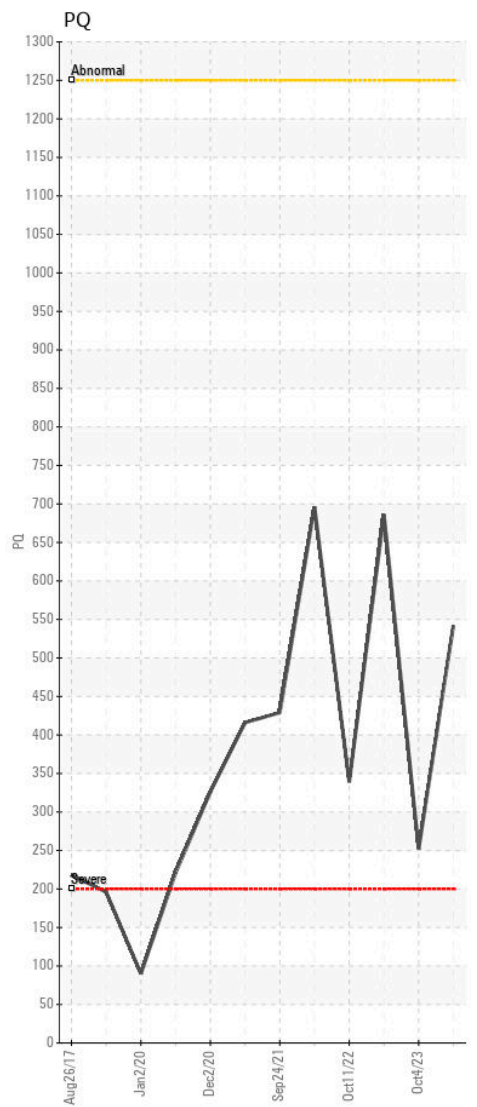
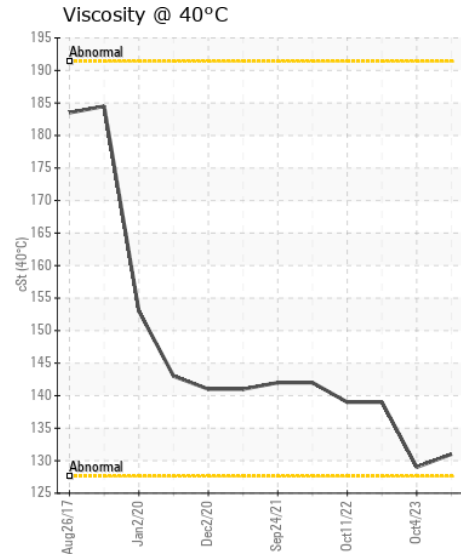
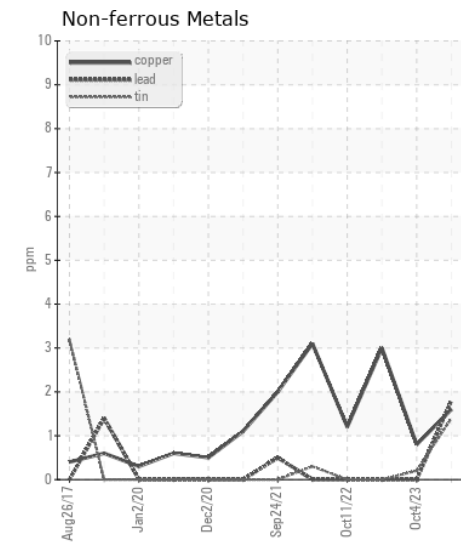
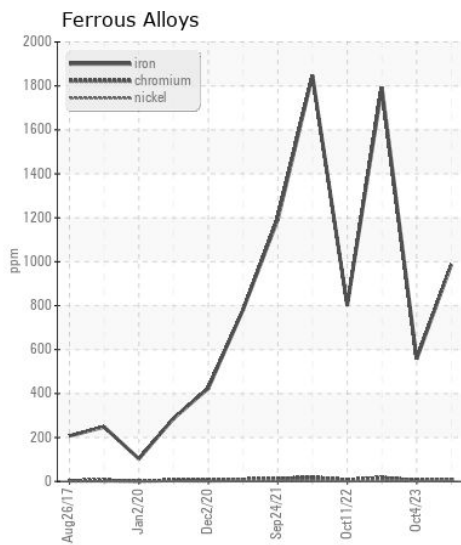
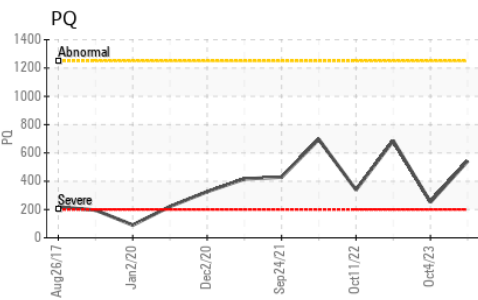
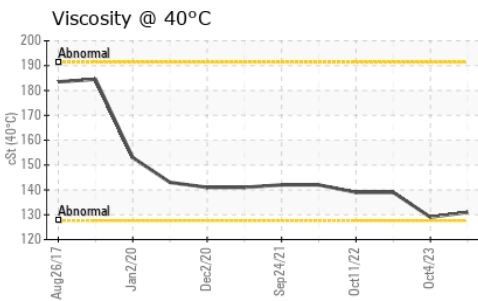
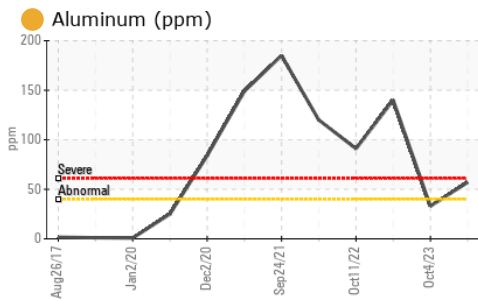
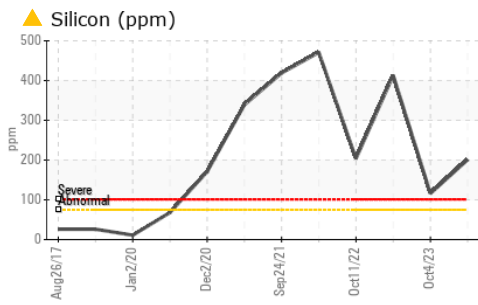
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 201	▲ 116	▲ 413
Potassium	ppm	ASTM D5185m	>20	15	7	24
Water		WC Method	>0.075	NEG	NEG	NEG
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

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	1	1	3
Boron	ppm	ASTM D5185m		122	125	13
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	0	1
Manganese	ppm	ASTM D5185m		8	5	16
Magnesium	ppm	ASTM D5185m		23	23	13
Calcium	ppm	ASTM D5185m		530	432	10
Phosphorus	ppm	ASTM D5185m		1090	914	327
Zinc	ppm	ASTM D5185m		197	158	0
Sulfur	ppm	ASTM D5185m		27828	20271	21707
Visc @ 40°C	cSt	ASTM D445		131	129	139



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0207906 **Received** : 12 Apr 2024
Lab Number : 06147577 **Tested** : 15 Apr 2024
Unique Number : 10977655 **Diagnosed** : 16 Apr 2024 - Sean Felton
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)

TENNOCA CONSTRUCTION
 PO BOX 2379
 CANDLER, NC
 US 28715
 Contact: MARK ROSS
 mark@tennoca.com
 T: (828)665-8331
 F: