



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ABNORMAL
SEVERE
NORMAL



Area
Store 4 - Fairmont
Machine Id
JOHN DEERE 210G 1FF210GXCNF530233
Component
Right Propel Gearbox
Fluid
JOHN DEERE GL-5 80W90 (2 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 recommend an early resample to monitor this condition. NOTE: one of two samples received with same ID and sampling date.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0042187	LEC0042187	LEC0038476
Sample Date		Client Info		30 Aug 2023	30 Aug 2023	21 Mar 2023
Machine Age	hrs	Client Info		882	882	388
Oil Age	hrs	Client Info		424	424	388
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		None	None	N/A
Sample Status				SEVERE	NORMAL	NORMAL

WEAR

Gear wear is indicated.

PQ		ASTM D8184		321	318	396
Iron	ppm	ASTM D5185m	>1250	▲ 1961	613	428
Chromium	ppm	ASTM D5185m	>10	▲ 15	10	8
Nickel	ppm	ASTM D5185m	>10	2	<1	<1
Titanium	ppm	ASTM D5185m		10	<1	<1
Silver	ppm	ASTM D5185m		0	0	4
Aluminum	ppm	ASTM D5185m		● 131	5	4
Lead	ppm	ASTM D5185m		0	0	0
Copper	ppm	ASTM D5185m		4	1	<1
Tin	ppm	ASTM D5185m		<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

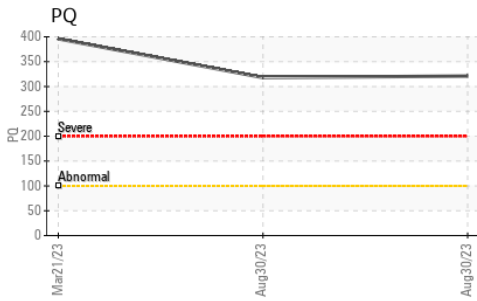
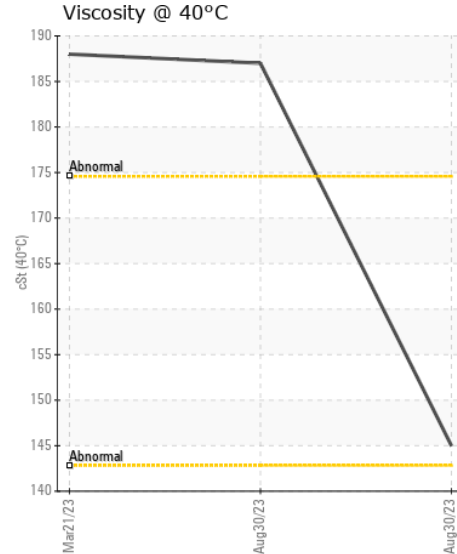
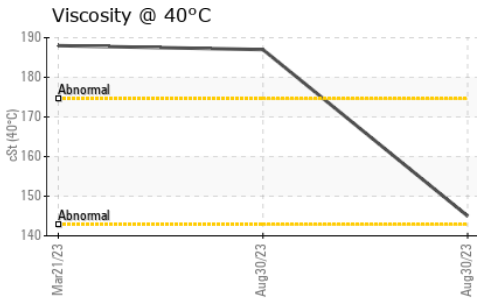
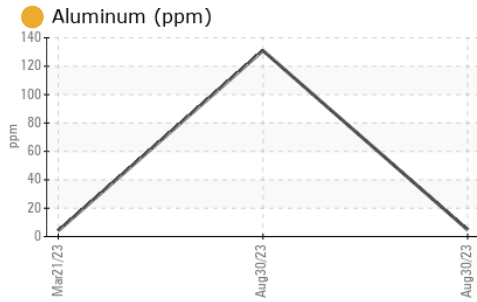
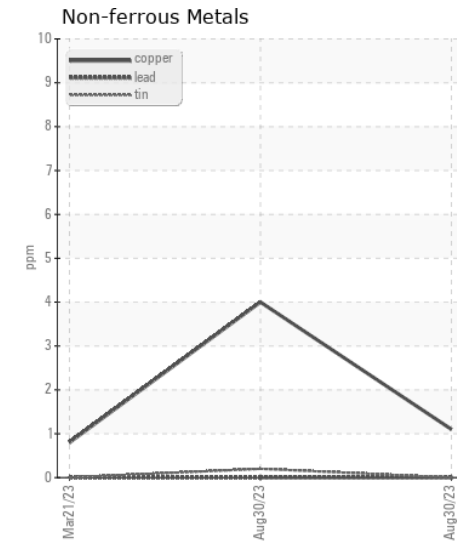
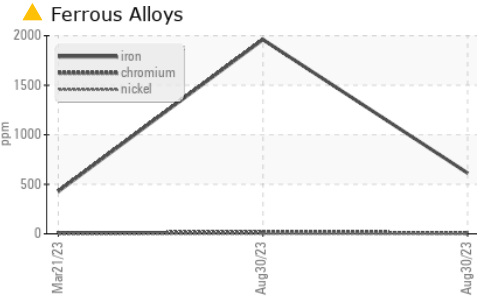
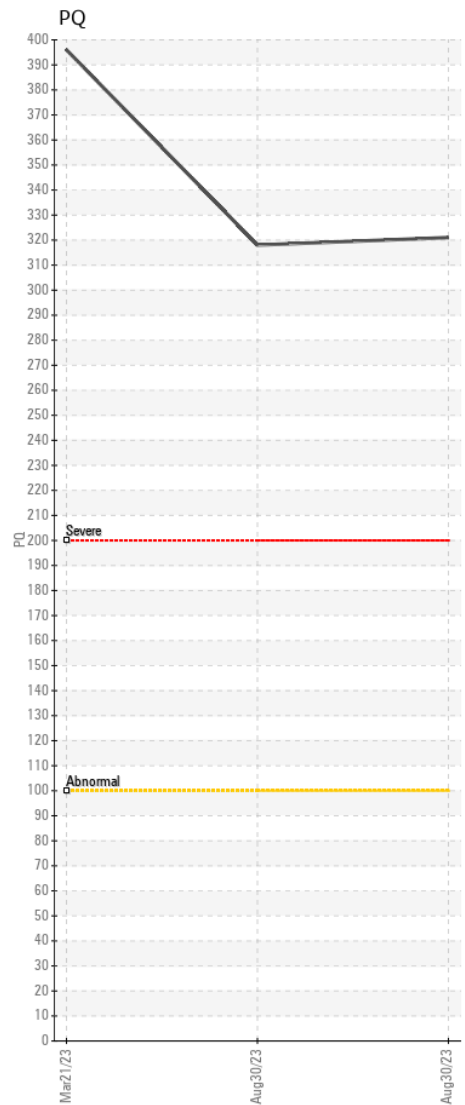
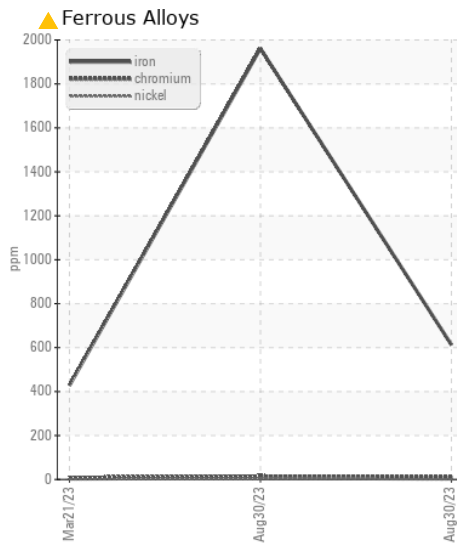
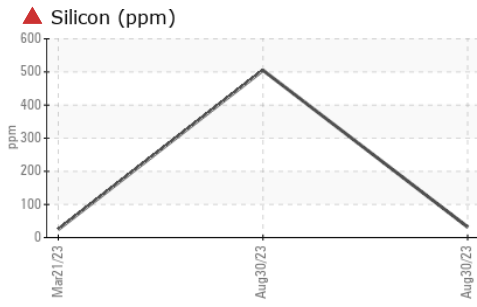
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		▲ 505	32	25
Potassium	ppm	ASTM D5185m	>20	33	2	1
Water		WC Method	>0.2	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	>0.2	NEG	NEG	NEG

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m		7	<1	<1
Boron	ppm	ASTM D5185m		93	71	79
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	0	<1
Manganese	ppm	ASTM D5185m		15	10	9
Magnesium	ppm	ASTM D5185m		21	0	4
Calcium	ppm	ASTM D5185m		180	18	48
Phosphorus	ppm	ASTM D5185m		850	522	463
Zinc	ppm	ASTM D5185m		62	25	19
Sulfur	ppm	ASTM D5185m		23810	17875	17802
Visc @ 40°C	cSt	ASTM D445		145	187	188



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0042187 **Received** : 08 Sep 2023
Lab Number : 05945970 **Tested** : 11 Sep 2023
Unique Number : 10641929 **Diagnosed** : 11 Sep 2023 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

LESLIE EQUIPMENT COMPANY
 105 TENNIS CENTER DR.
 MARIETTA, OH
 US 45750-9765
 Contact: LEANNE KENDALL
 KendalLeanne@lec1.com

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)

F: (740)373-5570