



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
SEVERE
NORMAL



Area
Store 9 - Marietta
Machine Id
JOHN DEERE 210G 1FF210GXLKF527548
Component
Right Propel Gearbox
Fluid
JOHN DEERE HY-GARD HYD/TRANS (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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0044431	LEC0011376	LEC0026193
Sample Date		Client Info		23 Aug 2023	07 Sep 2022	06 Dec 2021
Machine Age	hrs	Client Info		3816	3131	2169
Oil Age	hrs	Client Info		1647	962	538
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Chngd	Changed
Filter Changed		Client Info		None	N/A	None
Sample Status				SEVERE	SEVERE	ABNORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		642	1289	241
Iron	ppm	ASTM D5185m	>1250	2526	▲ 2309	449
Chromium	ppm	ASTM D5185m	>10	18	▲ 17	4
Nickel	ppm	ASTM D5185m	>10	3	2	<1
Titanium	ppm	ASTM D5185m		13	14	2
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		● 210	● 222	● 28
Lead	ppm	ASTM D5185m		<1	<1	<1
Copper	ppm	ASTM D5185m		4	4	1
Tin	ppm	ASTM D5185m		0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	LIGHT	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

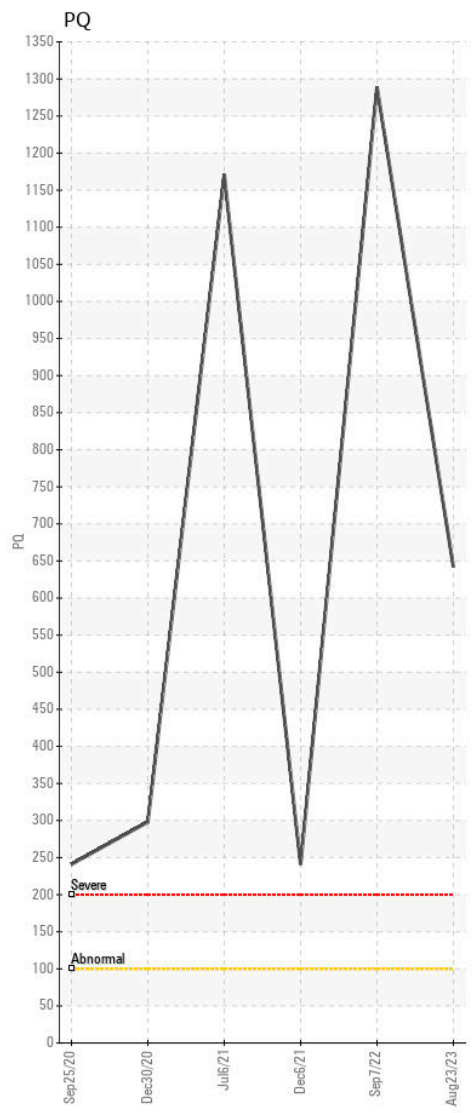
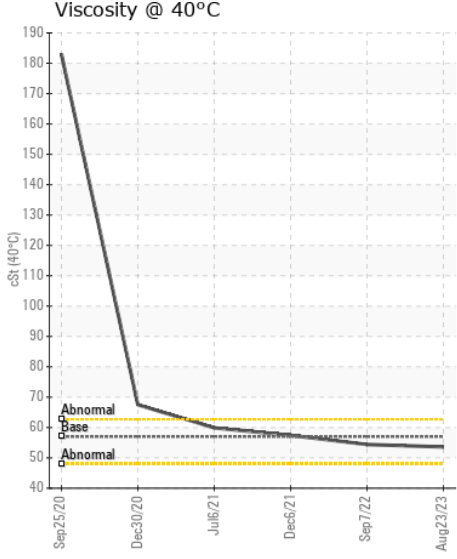
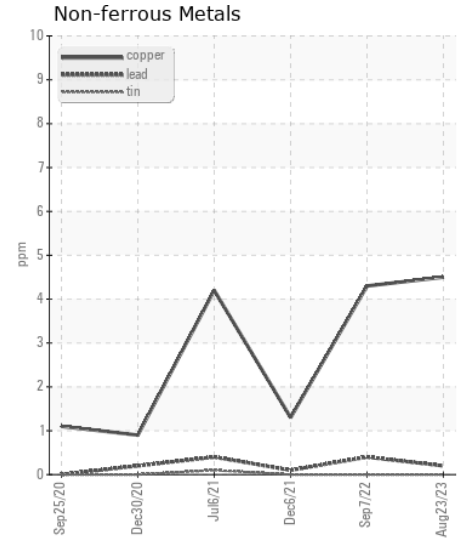
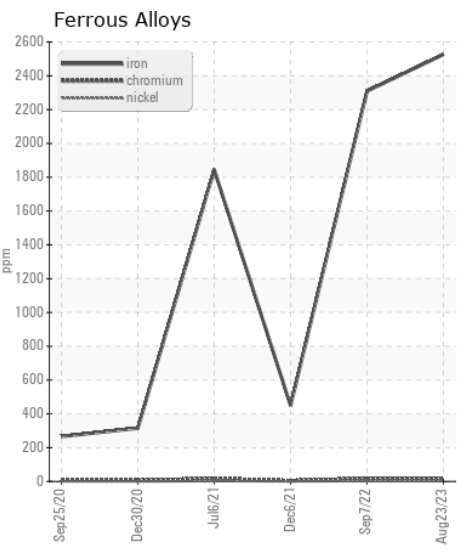
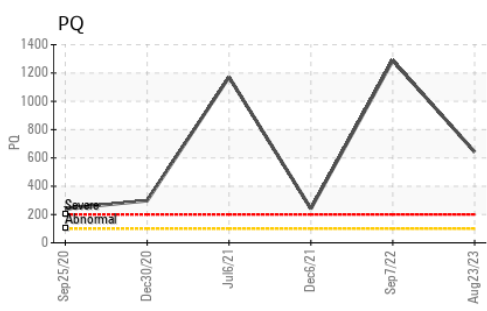
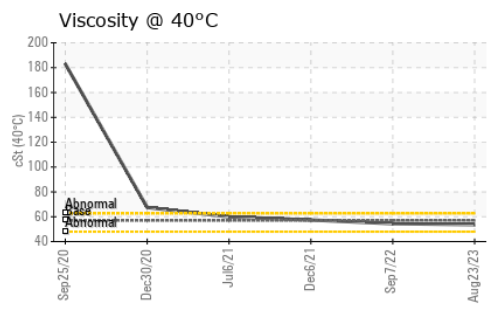
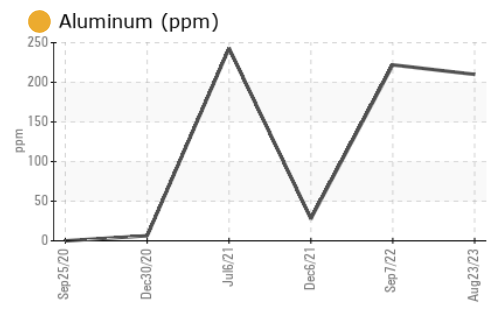
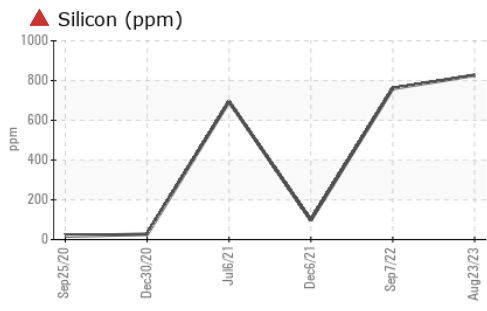
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		▲ 827	▲ 760	▲ 97
Potassium	ppm	ASTM D5185m	>20	62	57	9
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	VLITE
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	10	0
Boron	ppm	ASTM D5185m	6	3	4	12
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	2	2	4
Manganese	ppm	ASTM D5185m		22	19	4
Magnesium	ppm	ASTM D5185m	145	114	113	121
Calcium	ppm	ASTM D5185m	3570	3361	3345	3841
Phosphorus	ppm	ASTM D5185m	1290	963	988	1104
Zinc	ppm	ASTM D5185m	1640	1150	1181	1191
Sulfur	ppm	ASTM D5185m		3898	3412	3227
Visc @ 40°C	cSt	ASTM D445	57.0	53.6	54.4	57.4



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0044431 **Received** : 25 Aug 2023
Lab Number : 05934999 **Tested** : 25 Aug 2023
Unique Number : 10620270 **Diagnosed** : 28 Aug 2023 - Sean Felton
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)