



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Area
Store 9 - Marietta
Machine Id
JOHN DEERE 210G 1FF210GXLKF527548
Component
Left 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. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0011374	LEC0026192	LEC0022388
Sample Date		Client Info		07 Sep 2022	06 Dec 2021	06 Jul 2021
Machine Age	hrs	Client Info		3131	2169	1631
Oil Age	hrs	Client Info		962	538	596
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Filter Changed		Client Info		N/A	None	N/A
Sample Status				SEVERE	NORMAL	ABNORMAL

WEAR

Gear wear is indicated.

PQ		ASTM D8184		896	120	267
Iron	ppm	ASTM D5185m	>1250	▲ 2269	194	541
Chromium	ppm	ASTM D5185m		▲ 18	2	7
Nickel	ppm	ASTM D5185m		1	0	<1
Titanium	ppm	ASTM D5185m		17	<1	2
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m		● 283	11	● 31
Lead	ppm	ASTM D5185m		<1	0	0
Copper	ppm	ASTM D5185m		5	2	2
Tin	ppm	ASTM D5185m		0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	LIGHT	LIGHT	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

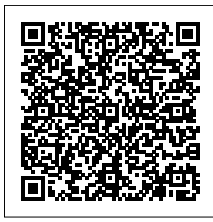
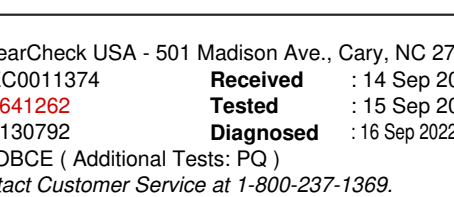
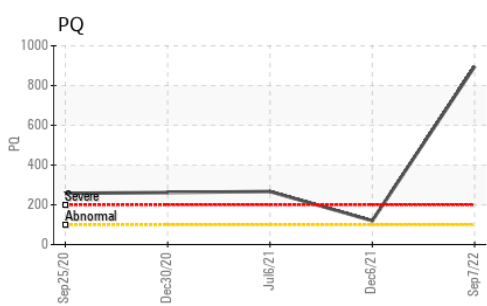
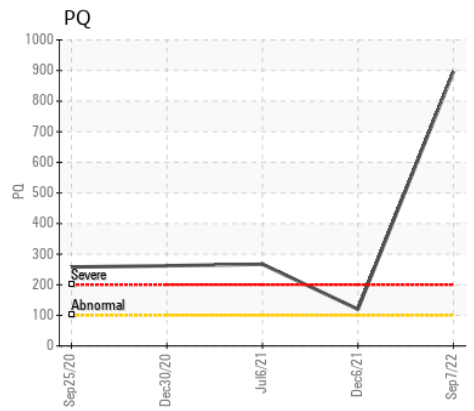
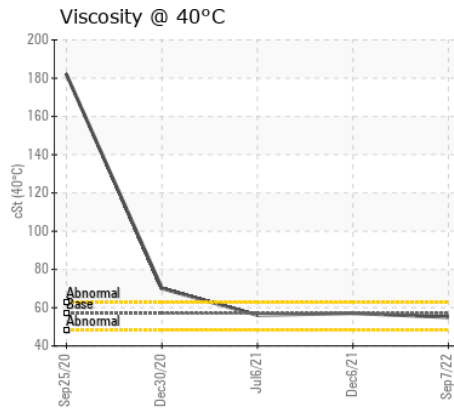
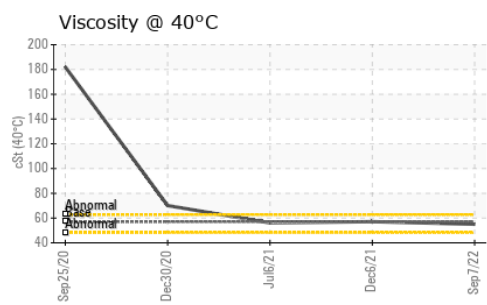
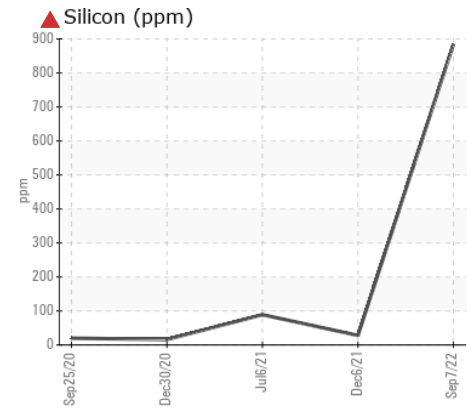
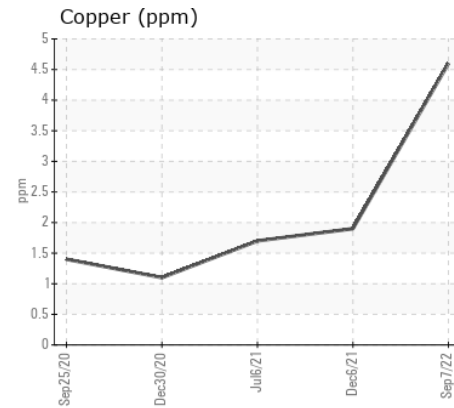
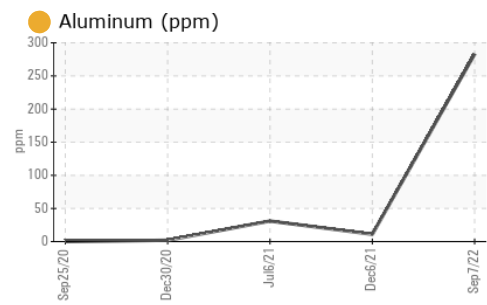
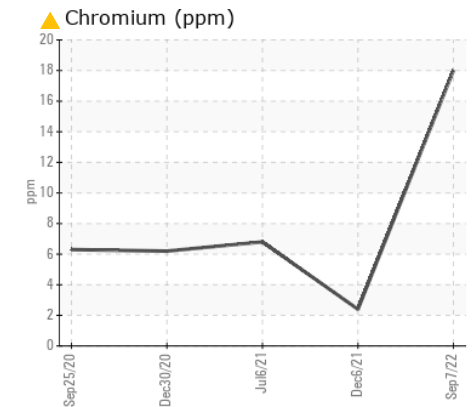
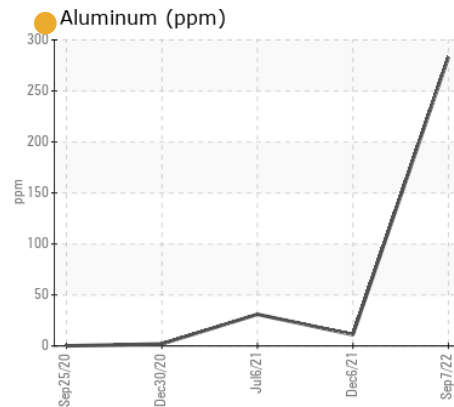
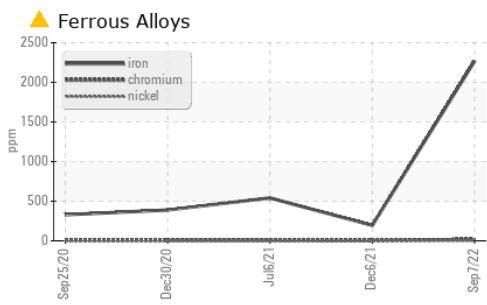
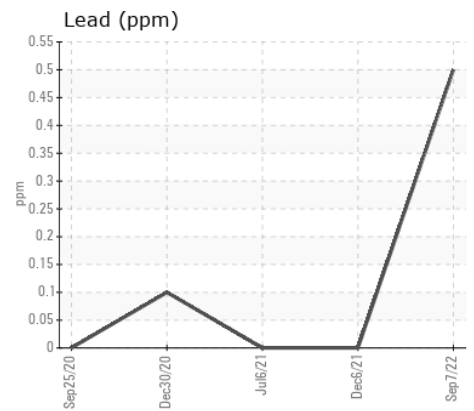
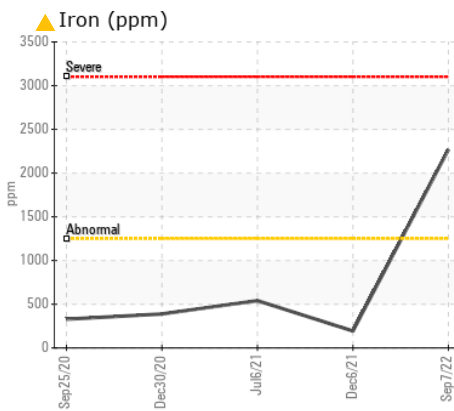
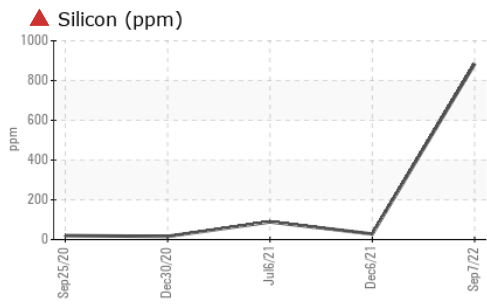
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m		▲ 884	28	▲ 89
Potassium	ppm	ASTM D5185m	>20	74	3	11
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		11	0	0
Boron	ppm	ASTM D5185m	6	13	12	20
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	2	3	4
Manganese	ppm	ASTM D5185m		21	2	6
Magnesium	ppm	ASTM D5185m	145	116	115	105
Calcium	ppm	ASTM D5185m	3570	3263	3834	3432
Phosphorus	ppm	ASTM D5185m	1290	986	1115	969
Zinc	ppm	ASTM D5185m	1640	1136	1208	1109
Sulfur	ppm	ASTM D5185m		3999	3399	3424
Visc @ 40°C	cSt	ASTM D445	57.0	55.0	57.1	56.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0011374 **Received** : 14 Sep 2022
Lab Number : 05641262 **Tested** : 15 Sep 2022
Unique Number : 10130792 **Diagnosed** : 16 Sep 2022 - Don Baldrige
Test Package : MOBCE (Additional Tests: PQ)

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Certificate L2367
 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)