



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Area
Store 9 - Marietta
Machine Id
JOHN DEERE 333G 1T0333GMAHF318244
Component
Right Planetary
Fluid
JOHN DEERE HY-GARD HYD/TRANS (1 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. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0036211	LEC0015746	---
Sample Date		Client Info		05 Oct 2022	01 Sep 2020	---
Machine Age	hrs	Client Info		1776	1102	---
Oil Age	hrs	Client Info		674	550	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		None	N/A	---
Sample Status				SEVERE	SEVERE	---

WEAR

Gear wear is indicated. The very high ferrous density (PQ) index indicates that severe wear is occurring.

PQ		ASTM D8184		▲ 1285	199	---
Iron	ppm	ASTM D5185m	>500	▲ 10000	▲ 6947	---
Chromium	ppm	ASTM D5185m	>10	▲ 118	▲ 63	---
Nickel	ppm	ASTM D5185m		▲ 76	▲ 34	---
Titanium	ppm	ASTM D5185m		▲ 54	24	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	▲ 120	● 388	---
Lead	ppm	ASTM D5185m	>25	2	0	---
Copper	ppm	ASTM D5185m	>75	15	10	---
Tin	ppm	ASTM D5185m	>10	<1	0	---
Vanadium	ppm	ASTM D5185m		6	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

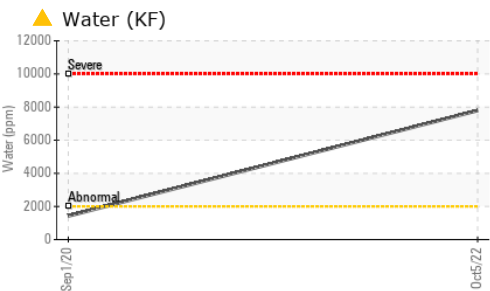
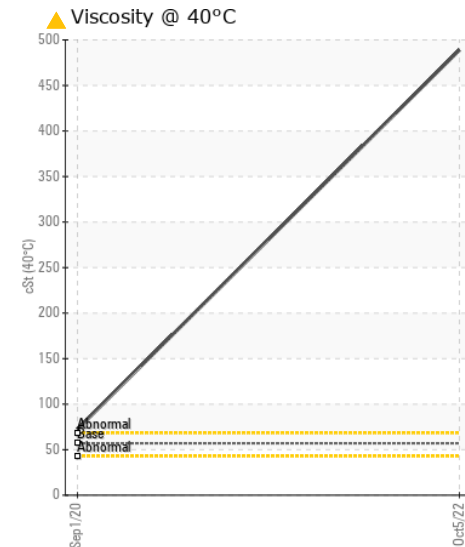
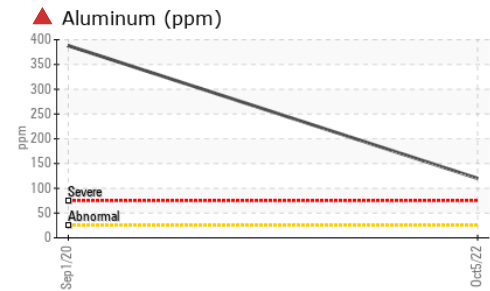
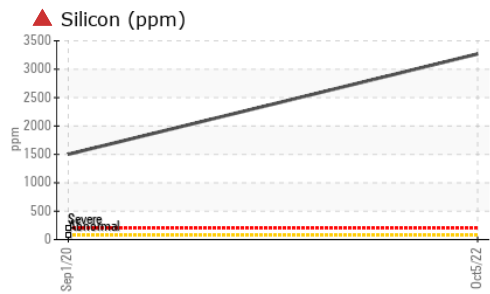
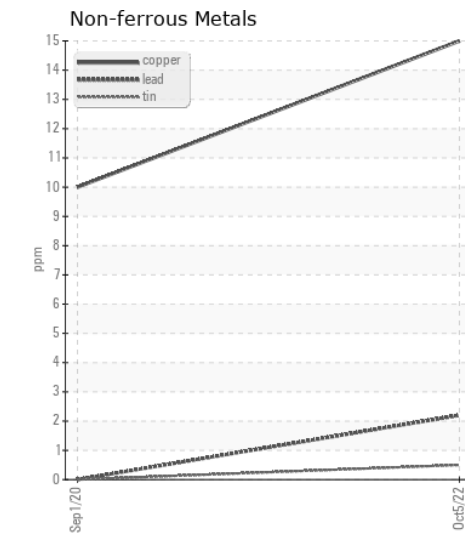
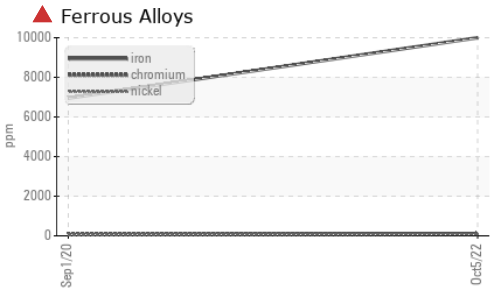
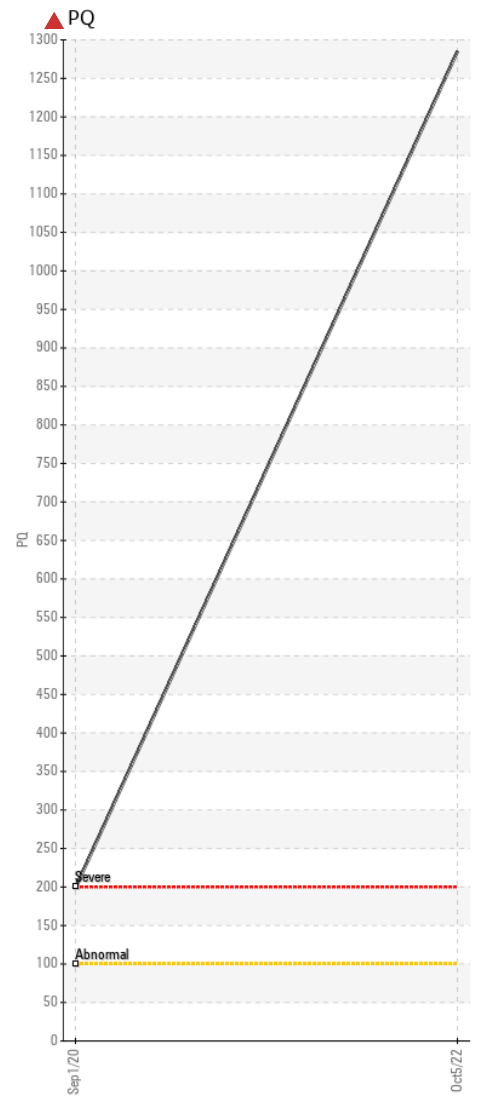
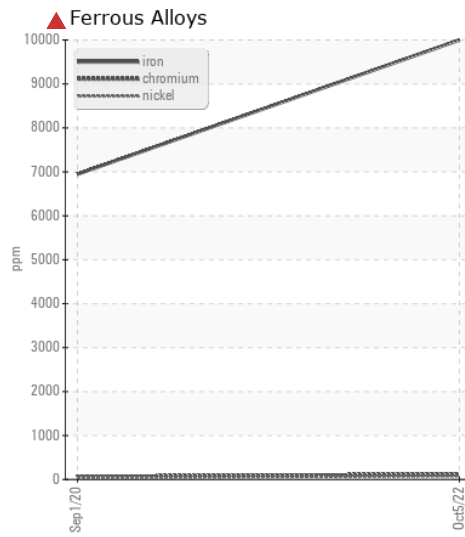
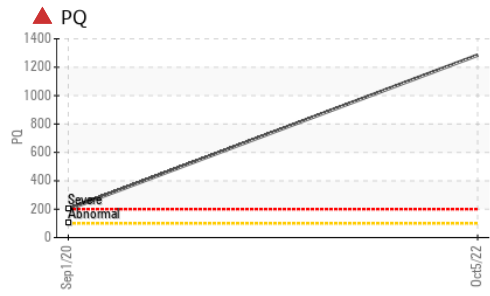
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a moderate concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>75	▲ 3269	▲ 1502	---
Potassium	ppm	ASTM D5185m	>20	228	150	---
Water	%	ASTM D6304	>0.2	▲ 0.779	0.142	---
ppm Water	ppm	ASTM D6304	>2000	▲ 7790	1420	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	0.2%	0.2%	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		76	40	---
Boron	ppm	ASTM D5185m	6	50	57	---
Barium	ppm	ASTM D5185m	0	27	38	---
Molybdenum	ppm	ASTM D5185m	0	24	0	---
Manganese	ppm	ASTM D5185m		98	56	---
Magnesium	ppm	ASTM D5185m	145	298	142	---
Calcium	ppm	ASTM D5185m	3570	3363	2622	---
Phosphorus	ppm	ASTM D5185m	1290	798	983	---
Zinc	ppm	ASTM D5185m	1640	828	832	---
Sulfur	ppm	ASTM D5185m		20270	49436	---
Visc @ 40°C	cSt	ASTM D445	57.0	▲ 488.9	72.6	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0036211 **Received** : 07 Oct 2022
Lab Number : 05661068 **Tested** : 12 Oct 2022
Unique Number : 10165637 **Diagnosed** : 12 Oct 2022 - Doug Bogart
Test Package : CONST (Additional Tests: KF, 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)

T:
 F: (740)373-5570