



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 410E-II 1DW410ELJMF710562

Component
Hydraulic System

Fluid
JOHN DEERE HYDRAU (46 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0152569	JR0139144	---
Sample Date		Client Info		09 Nov 2022	15 Aug 2022	---
Machine Age	hrs	Client Info		3243	2060	---
Oil Age	hrs	Client Info		200	0	---
Filter Age	hrs	Client Info		200	0	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	5	12	---
Iron	ppm	ASTM D5185m	>71	7	4	---
Chromium	ppm	ASTM D5185m	>11	<1	<1	---
Nickel	ppm	ASTM D5185m	>6	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>11	<1	1	---
Lead	ppm	ASTM D5185m	>13	<1	0	---
Copper	ppm	ASTM D5185m	>21	5	7	---
Tin	ppm	ASTM D5185m	>5	<1	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

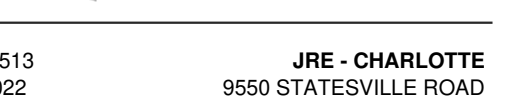
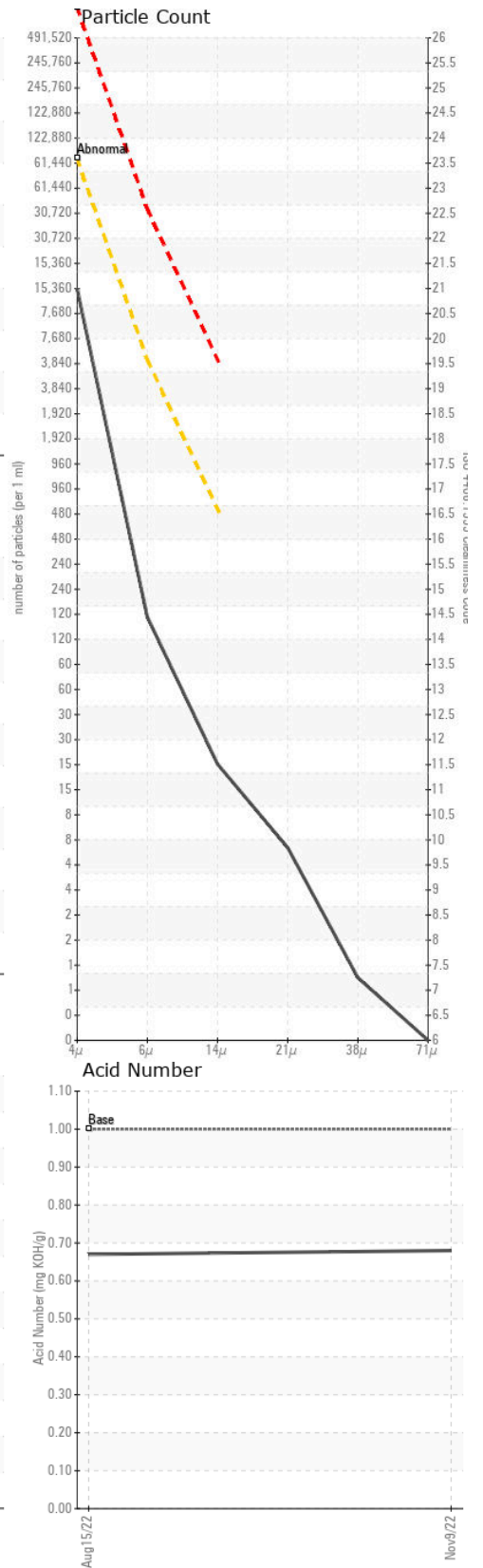
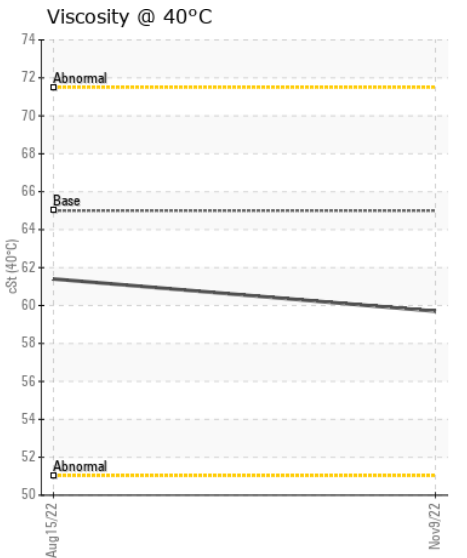
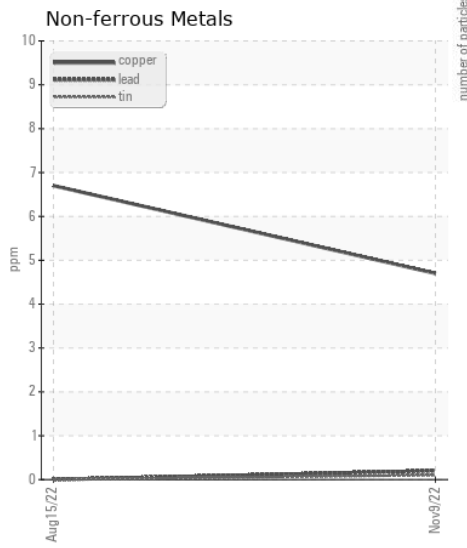
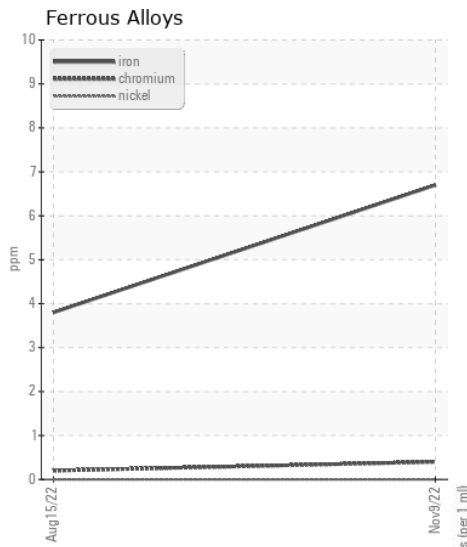
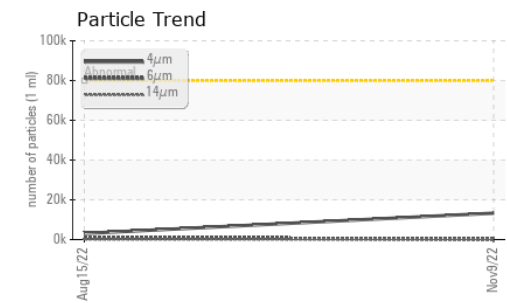
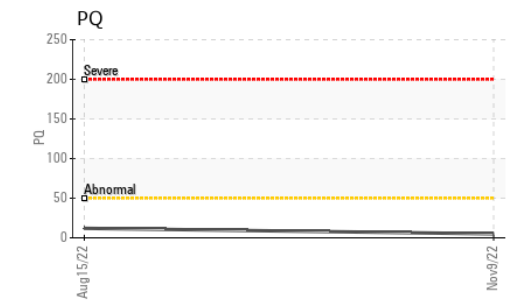
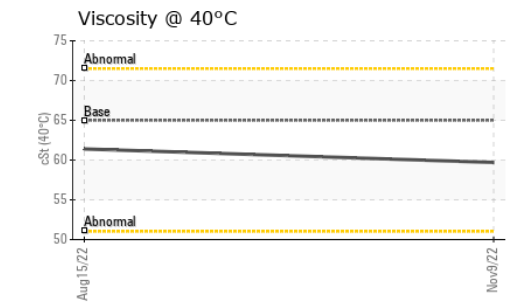
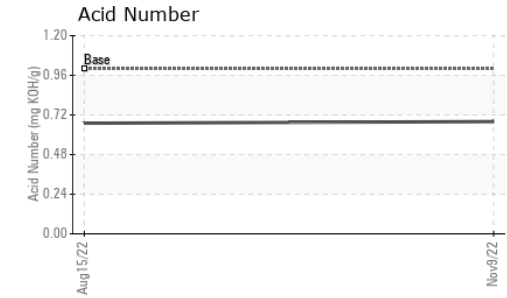
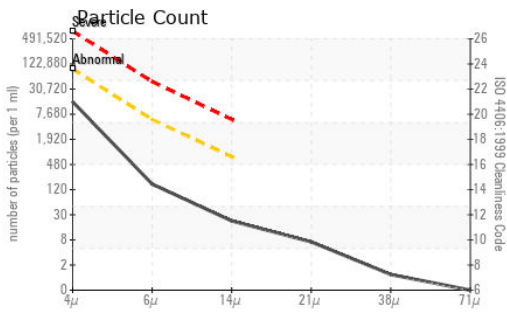
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>24	1	1	---
Potassium	ppm	ASTM D5185m	>20	5	2	---
Water		WC Method	>0.075	NEG	NEG	---
Particles >4µm		ASTM D7647	>80000	13278	3077	---
Particles >6µm		ASTM D7647	>5000	144	1045	---
Particles >14µm		ASTM D7647	>640	19	97	---
Particles >21µm		ASTM D7647	>160	6	14	---
Particles >38µm		ASTM D7647	>40	1	0	---
Particles >71µm		ASTM D7647	>10	0	0	---
Oil Cleanliness		ISO 4406 (c)	>23/19/16	21/14/11	19/17/14	---
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	>0.075	NEG	NEG	---

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	0	2	---
Boron	ppm	ASTM D5185m		9	6	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		10	5	---
Manganese	ppm	ASTM D5185m		0	<1	---
Magnesium	ppm	ASTM D5185m		30	16	---
Calcium	ppm	ASTM D5185m	87	175	123	---
Phosphorus	ppm	ASTM D5185m	727	645	658	---
Zinc	ppm	ASTM D5185m	900	885	882	---
Sulfur	ppm	ASTM D5185m	1500	2076	1820	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.68	0.67	---
Visc @ 40°C	cSt	ASTM D445	65	59.7	61.4	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0152569 **Received** : 10 Nov 2022
Lab Number : 05690084 **Tested** : 11 Nov 2022
Unique Number : 10214657 **Diagnosed** : 11 Nov 2022 - Don Baldrige
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)

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