



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION



Area
[W64407]
 Machine Id
JOHN DEERE 410E-II 1DW410EBCNF713870
 Component
Center Differential
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (10 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W64407)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0192858	JR0177345	JR0142042
Sample Date		Client Info		21 Feb 2024	28 Aug 2023	30 Mar 2023
Machine Age	hrs	Client Info		2529	1984	1432
Oil Age	hrs	Client Info		1984	1035	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	N/A
Filter Changed		Client Info		Not Changed	Changed	N/A
Sample Status				ATTENTION	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		29	16	6
Iron	ppm	ASTM D5185m	>500	27	33	2
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	4	<1
Lead	ppm	ASTM D5185m	>25	<1	14	<1
Copper	ppm	ASTM D5185m	>100	2	8	0
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	LIGHT	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

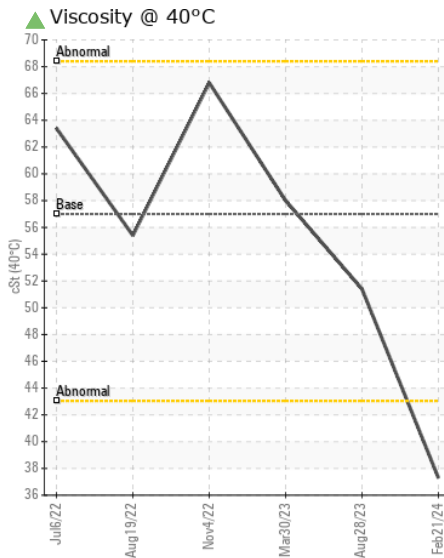
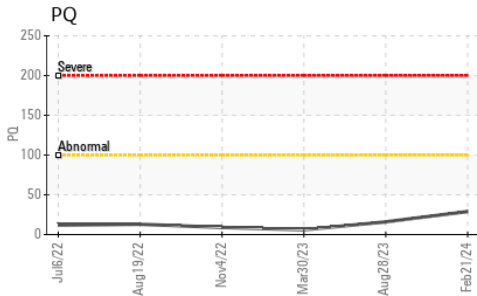
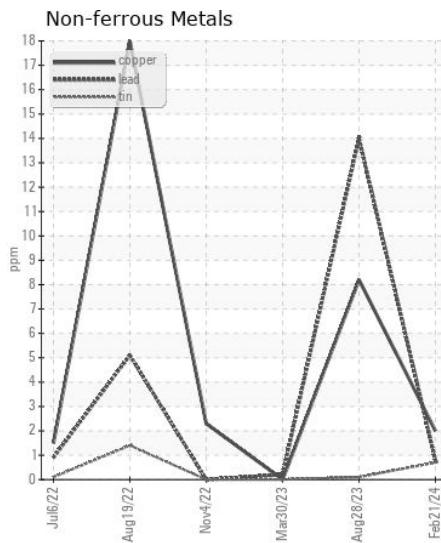
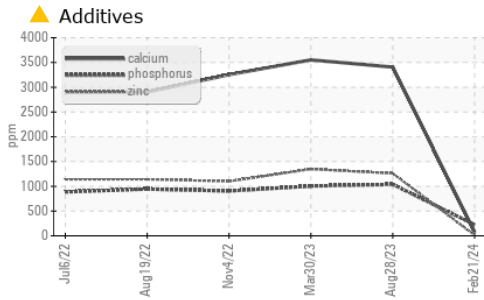
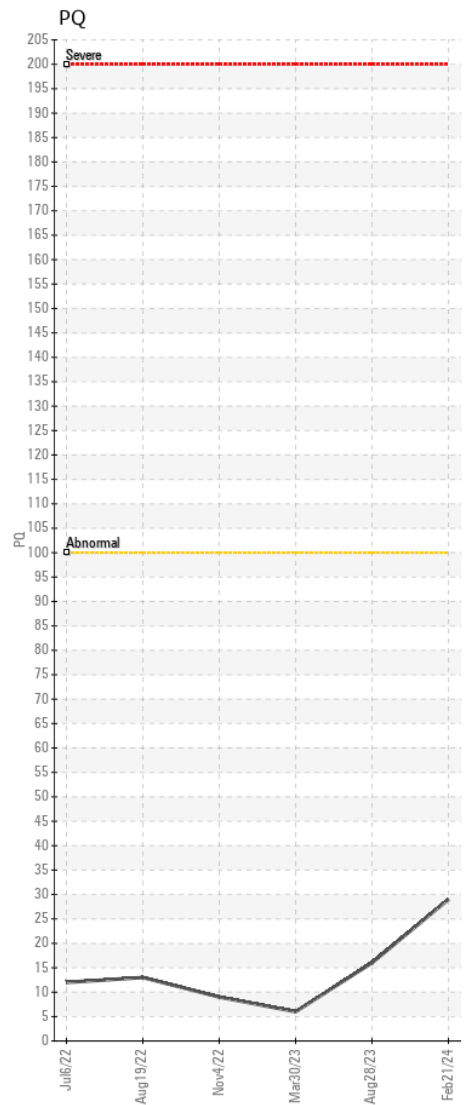
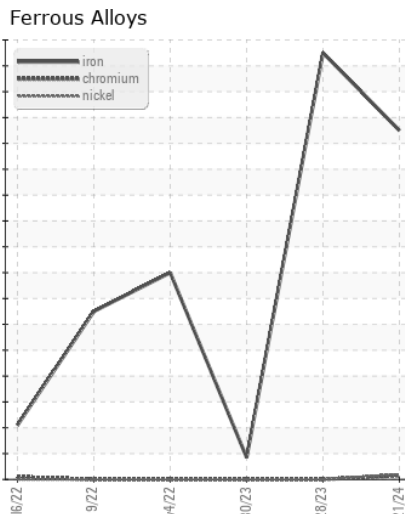
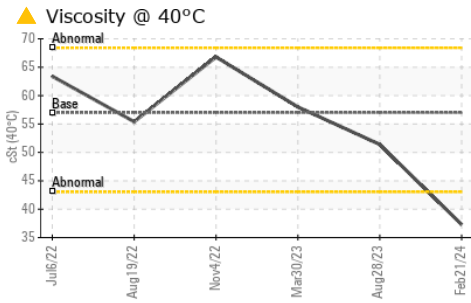
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	5	4	8
Potassium	ppm	ASTM D5185m	>20	2	1	<1
Water		WC Method	>.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	>.2	NEG	NEG	NEG

FLUID CONDITION

The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		0	4	<1
Boron	ppm	ASTM D5185m	6	▲ 122	0	3
Barium	ppm	ASTM D5185m	0	5	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	2
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	145	▲ <1	98	116
Calcium	ppm	ASTM D5185m	3570	▲ 70	3407	3552
Phosphorus	ppm	ASTM D5185m	1290	▲ 223	1039	1004
Zinc	ppm	ASTM D5185m	1640	▲ 14	1260	1347
Sulfur	ppm	ASTM D5185m		▲ 294	4549	4188
Visc @ 40°C	cSt	ASTM D445	57.0	▲ 37.3	51.4	58.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0192858 **Received** : 23 Feb 2024
Lab Number : 06099330 **Tested** : 26 Feb 2024
Unique Number : 10897560 **Diagnosed** : 27 Feb 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - CHARLOTTE
 9550 STATESVILLE ROAD
 CHARLOTTE, NC
 US 28269

Contact: CHARLOTTE SHOP
 myoung@jamesriverequipment.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)

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