



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area

[W67297]

Machine Id

JOHN DEERE 410E 1DW410EBHNF716068

Component

Center Differential

Fluid

JOHN DEERE HY-GARD HYDRAULIC/RANSMISSION (10 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W67297)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0215606	JR0192728	JR0170987
Sample Date		Client Info		28 May 2024	16 Nov 2023	12 Jul 2023
Machine Age	mls	Client Info		4751682	4751682	4751016
Oil Age	mls	Client Info		4751682	4751682	475
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		21	13	14
Iron	ppm	ASTM D5185m	>500	55	<1	2
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	1	2
Lead	ppm	ASTM D5185m	>25	18	0	0
Copper	ppm	ASTM D5185m	>100	28	0	2
Tin	ppm	ASTM D5185m	>10	3	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

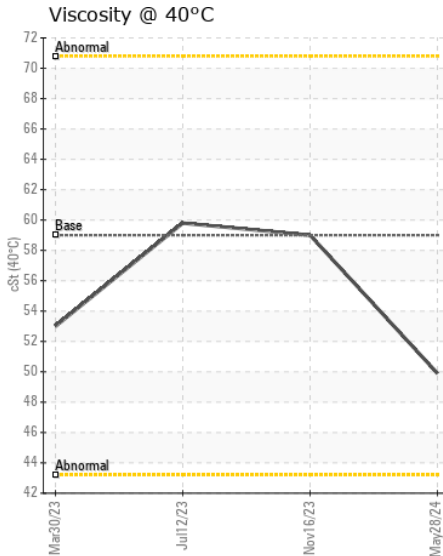
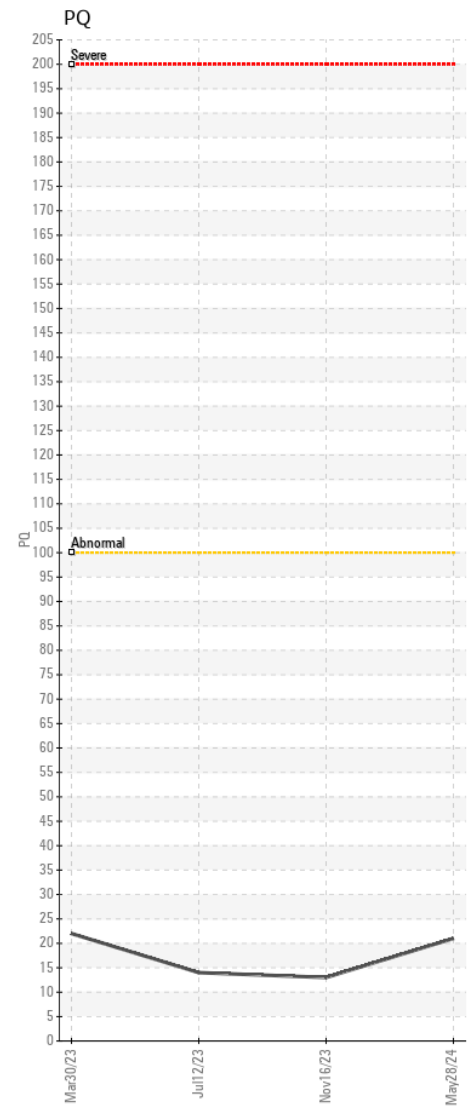
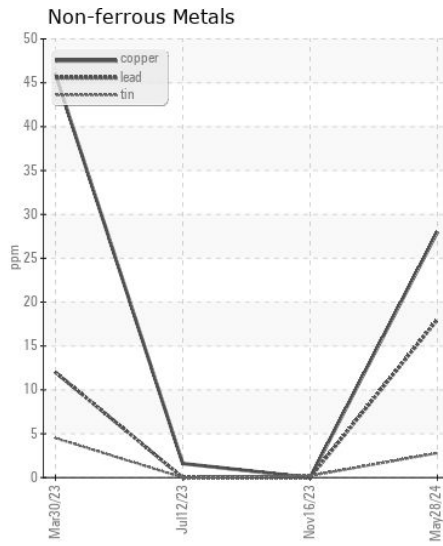
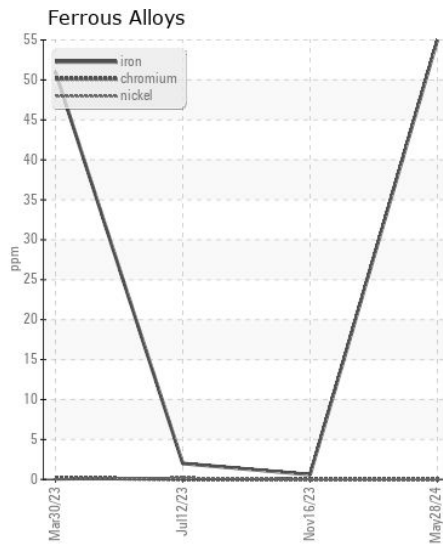
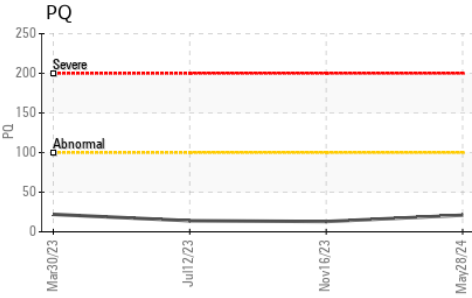
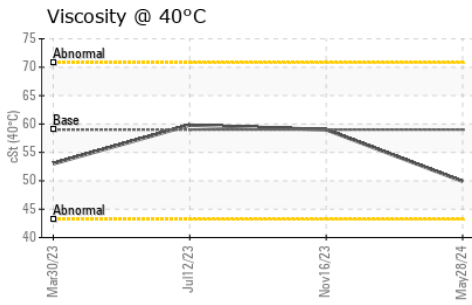
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>75	5	6	4
Potassium	ppm	ASTM D5185m	>20	0	0	<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 condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		4	<1	0
Boron	ppm	ASTM D5185m		1	<1	2
Barium	ppm	ASTM D5185m		4	0	2
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		2	<1	0
Magnesium	ppm	ASTM D5185m		99	104	97
Calcium	ppm	ASTM D5185m		3541	3322	3531
Phosphorus	ppm	ASTM D5185m		1121	1016	985
Zinc	ppm	ASTM D5185m		1252	1232	1255
Sulfur	ppm	ASTM D5185m		4513	3412	4179
Visc @ 40°C	cSt	ASTM D445	59	49.9	59.0	59.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0215606 **Received** : 30 May 2024
Lab Number : 06195676 **Tested** : 01 Jun 2024
Unique Number : 11057799 **Diagnosed** : 01 Jun 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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