



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 410E 1DW410EBJNF715317
Component
Center Differential
Fluid
JOHN DEERE HY-GARD HYD/TRANS (14 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0214136	JR0201133	JR0182322
Sample Date		Client Info		24 Apr 2024	06 Feb 2024	02 Oct 2023
Machine Age	hrs	Client Info		5283	4821	3978
Oil Age	hrs	Client Info		1200	843	2679
Filter Age	hrs	Client Info		470	843	500
Oil Changed		Client Info		Not Changed	N/A	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		19	7	16
Iron	ppm	ASTM D5185m	>500	18	18	27
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	1	<1
Lead	ppm	ASTM D5185m	>25	8	8	15
Copper	ppm	ASTM D5185m	>100	10	10	21
Tin	ppm	ASTM D5185m	>10	0	<1	2
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

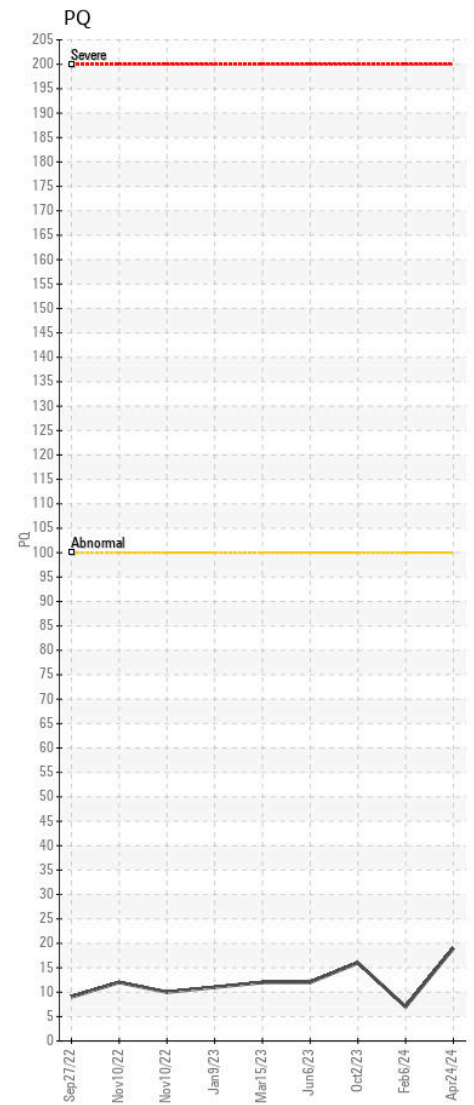
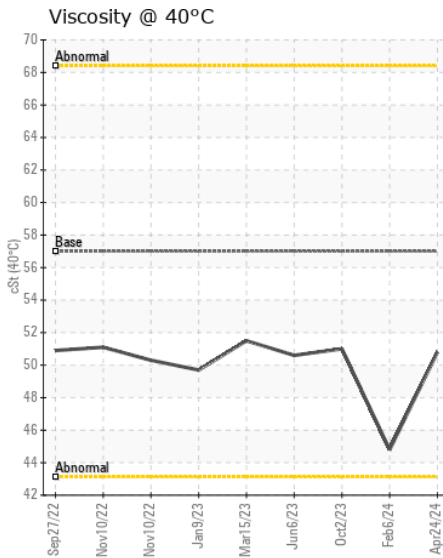
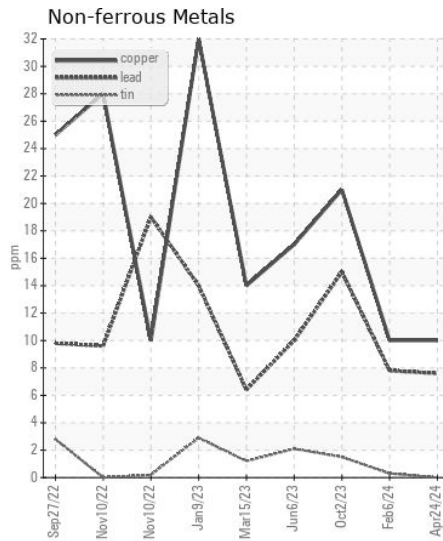
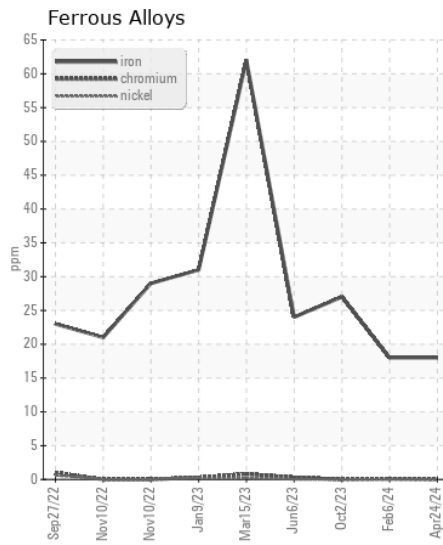
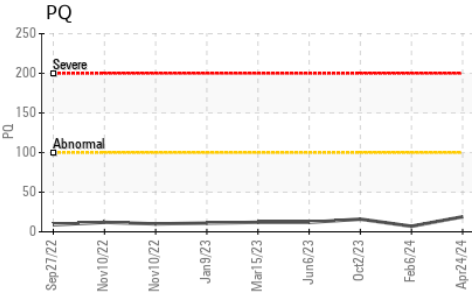
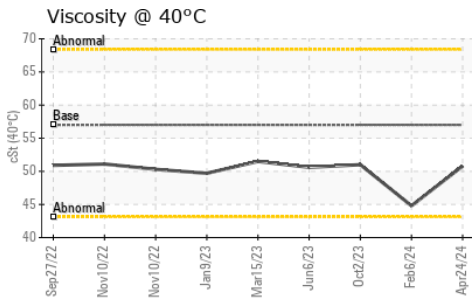
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	2	3	4
Potassium	ppm	ASTM D5185m	>20	0	2	<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.

Sodium	ppm	ASTM D5185m		5	2	6
Boron	ppm	ASTM D5185m	6	0	<1	0
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	1
Manganese	ppm	ASTM D5185m		<1	0	1
Magnesium	ppm	ASTM D5185m	145	88	91	108
Calcium	ppm	ASTM D5185m	3570	3274	3181	3319
Phosphorus	ppm	ASTM D5185m	1290	983	973	998
Zinc	ppm	ASTM D5185m	1640	1105	1216	1221
Sulfur	ppm	ASTM D5185m		3752	3458	3349
Visc @ 40°C	cSt	ASTM D445	57.0	50.8	44.8	51.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0214136 **Received** : 26 Apr 2024
Lab Number : 06161725 **Tested** : 28 Apr 2024
Unique Number : 10997148 **Diagnosed** : 28 Apr 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

JRE - NEW BERN
 3816 MARTIN LUTHER KING BLVD
 NEW BERN, NC
 US 28562
 Contact: NEW BERN SHOP
 nick.etherdridge@jamesriverequipment.com; canastasio@wearchekusa.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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