



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 410E 1DW410ELJNF713348
Component
Front Axle
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0200671	JR0186754	JR0176644
Sample Date		Client Info		28 Feb 2024	18 Oct 2023	22 Jul 2023
Machine Age	hrs	Client Info		3511	3038	2599
Oil Age	hrs	Client Info		2428	2394	644
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	Not Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		17	15	9
Iron	ppm	ASTM D5185m	>1501	32	26	21
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>21	1	4	1
Lead	ppm	ASTM D5185m	>51	22	21	15
Copper	ppm	ASTM D5185m	>101	6	8	4
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

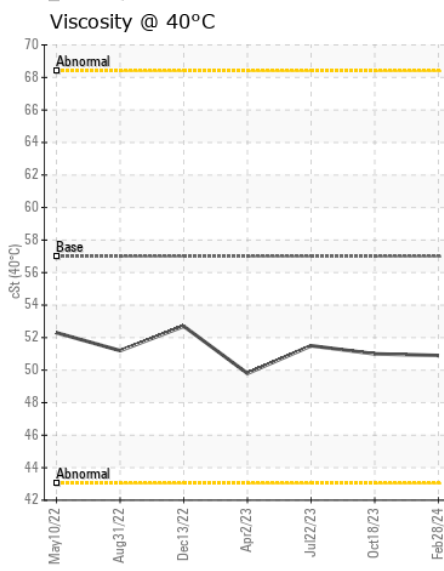
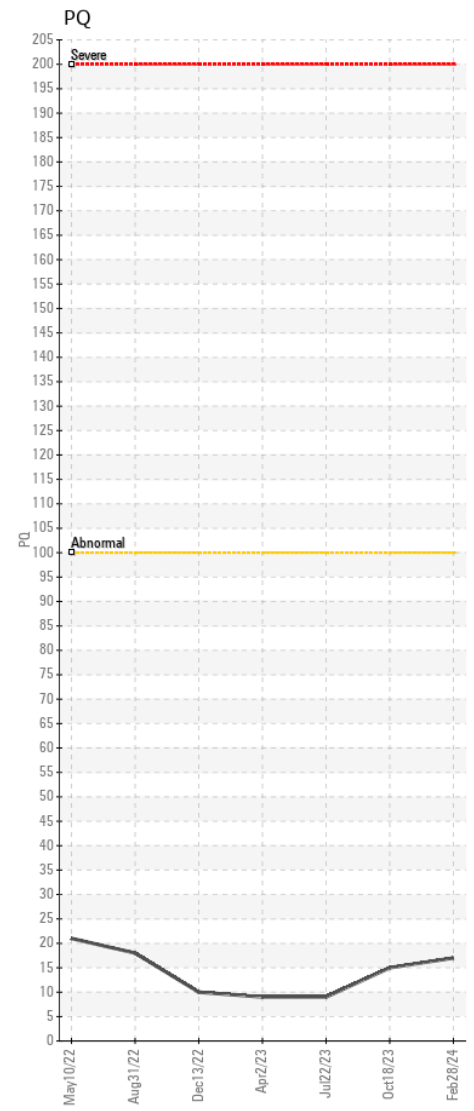
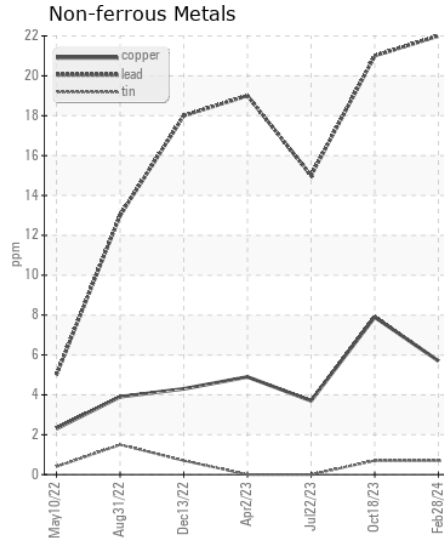
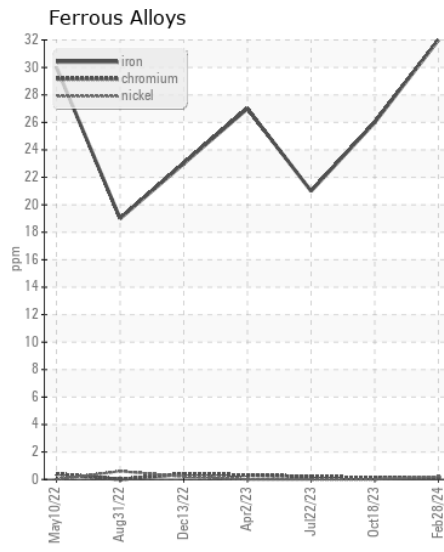
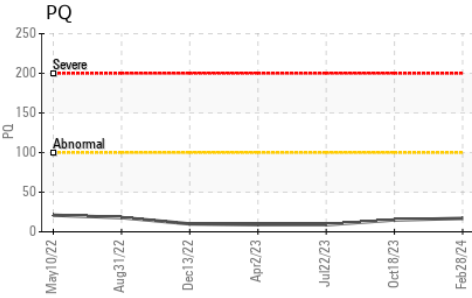
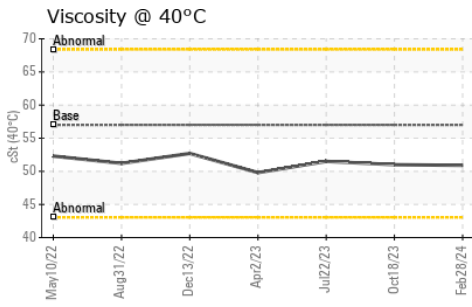
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	4	5	3
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water		WC Method	>0.1	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	>0.1	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	3	5	4
Boron	ppm	ASTM D5185m	6	1	1	0
Barium	ppm	ASTM D5185m	0	0	1	<1
Molybdenum	ppm	ASTM D5185m	0	<1	<1	1
Manganese	ppm	ASTM D5185m		<1	1	1
Magnesium	ppm	ASTM D5185m	145	104	96	106
Calcium	ppm	ASTM D5185m	3570	3728	3348	3806
Phosphorus	ppm	ASTM D5185m	1290	1066	1066	1092
Zinc	ppm	ASTM D5185m	1640	1359	1236	1346
Sulfur	ppm	ASTM D5185m		3492	3490	4440
Visc @ 40°C	cSt	ASTM D445	57.0	50.9	51.0	51.5



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0200671

Lab Number : 06104544

Unique Number : 10902774

Test Package : CONST (Additional Tests: PQ)

Received : 29 Feb 2024

Tested : 01 Mar 2024

Diagnosed : 01 Mar 2024 - Wes Davis

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)

JRE - GREENVILLE

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