



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 410E 1DW410ELJNF713348
 Component
Center 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		JR0213868	JR0200813	JR0186756
Sample Date		Client Info		21 Jun 2024	28 Feb 2024	18 Oct 2023
Machine Age	hrs	Client Info		3970	3511	3038
Oil Age	hrs	Client Info		2414	2428	2394
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		22	17	16
Iron	ppm	ASTM D5185m	>1501	44	34	22
Chromium	ppm	ASTM D5185m	>11	<1	0	<1
Nickel	ppm	ASTM D5185m	>10	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>21	3	1	6
Lead	ppm	ASTM D5185m	>51	23	21	<1
Copper	ppm	ASTM D5185m	>101	22	17	9
Tin	ppm	ASTM D5185m	>10	2	2	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

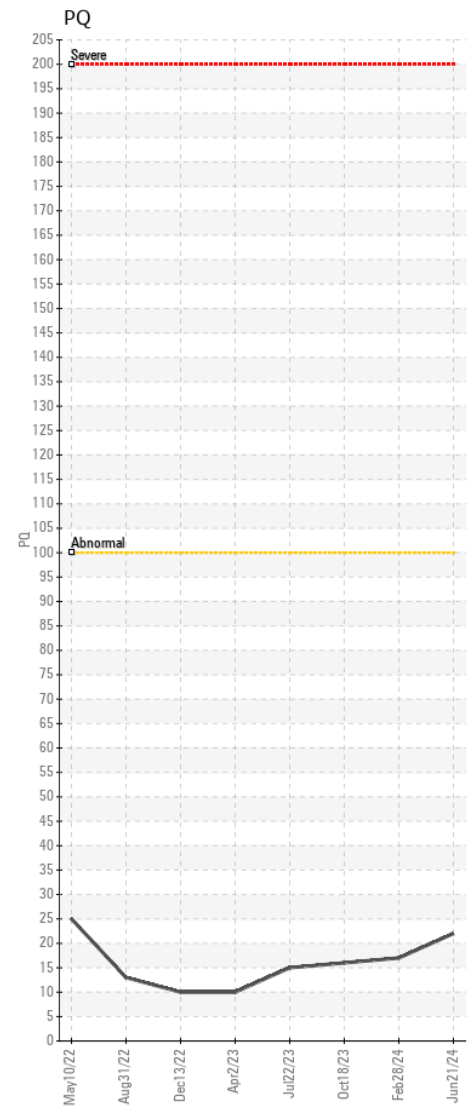
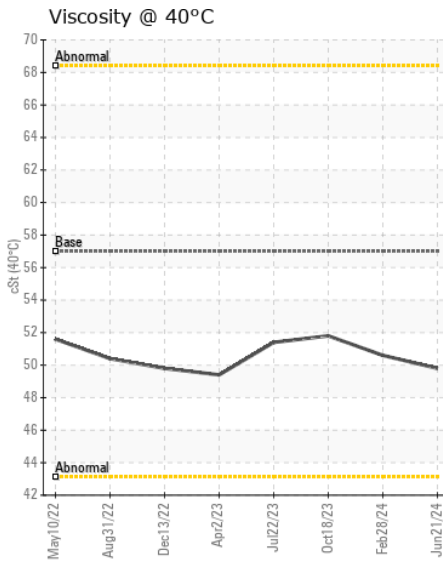
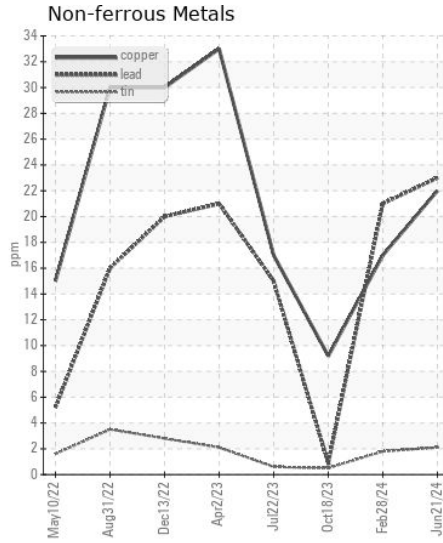
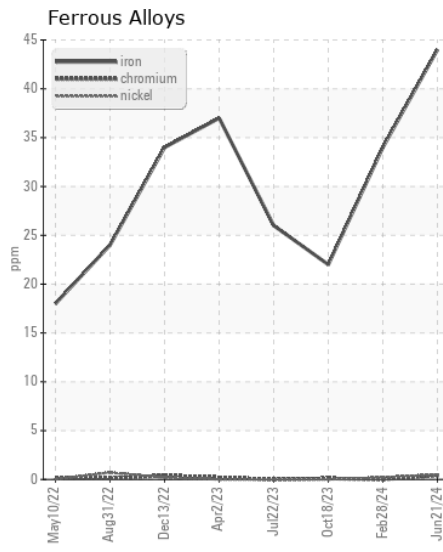
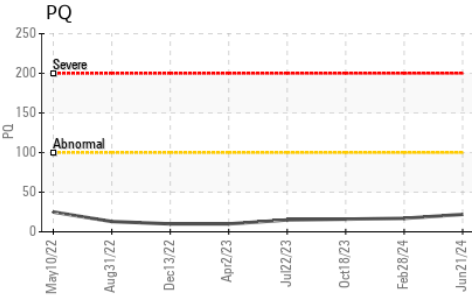
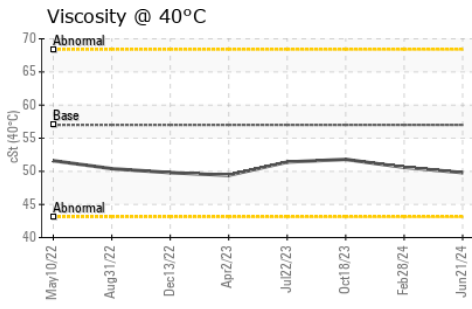
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	5	4	6
Potassium	ppm	ASTM D5185m	>20	3	<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	1	3	4
Boron	ppm	ASTM D5185m	6	2	2	2
Barium	ppm	ASTM D5185m	0	3	0	<1
Molybdenum	ppm	ASTM D5185m	0	2	<1	<1
Manganese	ppm	ASTM D5185m		2	<1	2
Magnesium	ppm	ASTM D5185m	145	99	105	100
Calcium	ppm	ASTM D5185m	3570	3521	3663	3327
Phosphorus	ppm	ASTM D5185m	1290	1030	1050	1054
Zinc	ppm	ASTM D5185m	1640	1263	1327	1246
Sulfur	ppm	ASTM D5185m		3608	3411	3445
Visc @ 40°C	cSt	ASTM D445	57.0	49.8	50.6	51.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0213868 **Received** : 24 Jun 2024
Lab Number : 06218460 **Tested** : 25 Jun 2024
Unique Number : 11096657 **Diagnosed** : 25 Jun 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

JRE - GREENVILLE
 3604 HIGHWAY 264 E
 GREENVILLE, NC
 US 27834-5800

Contact: GREENVILLE SHOP
 christopher.martin@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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F: