



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 410E 1DW410ETEFK697804
Component
Center Axle
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0212626	JR0197428	JR0139247
Sample Date		Client Info		24 May 2024	07 Dec 2023	26 Aug 2022
Machine Age	hrs	Client Info		5520	5009	3982
Oil Age	hrs	Client Info		0	1027	3508
Filter Age	hrs	Client Info		0	1027	0
Oil Changed		Client Info		Not Changed	Not Changed	Changed
Filter Changed		Client Info		Not Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		15	16	19
Iron	ppm	ASTM D5185m	>1501	29	29	44
Chromium	ppm	ASTM D5185m	>11	0	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>21	<1	<1	2
Lead	ppm	ASTM D5185m	>51	32	▲ 32	37
Copper	ppm	ASTM D5185m	>101	14	13	6
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

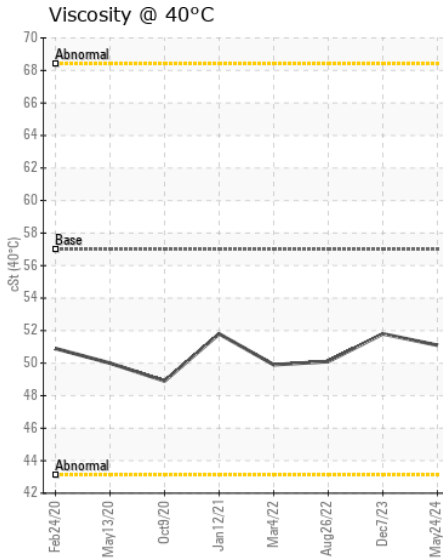
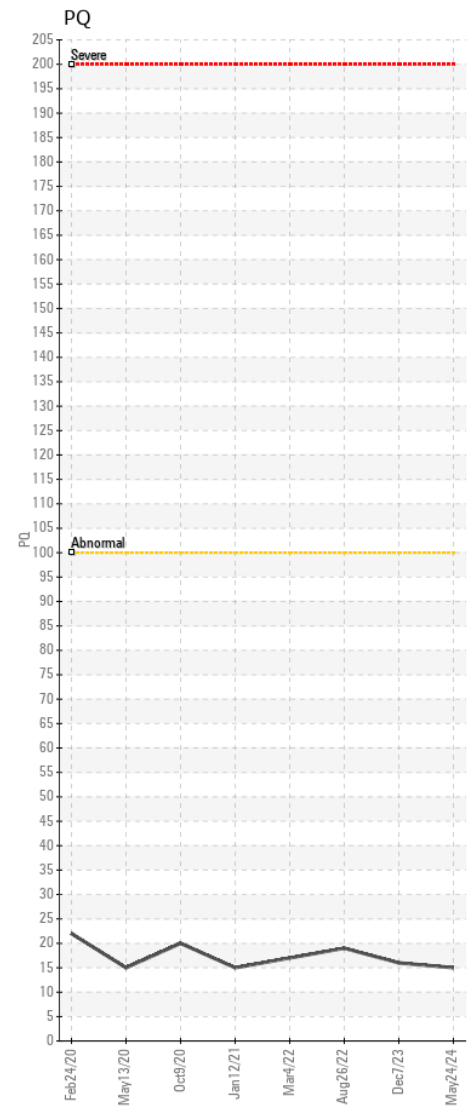
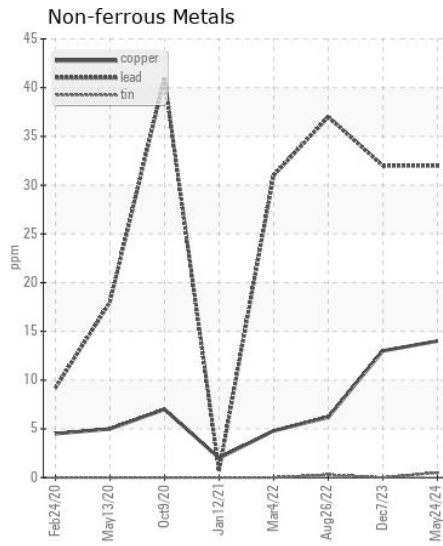
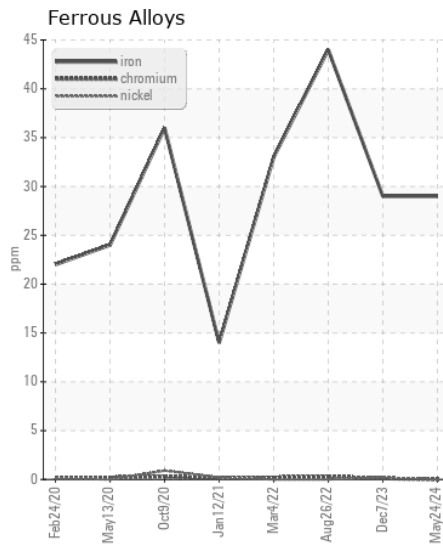
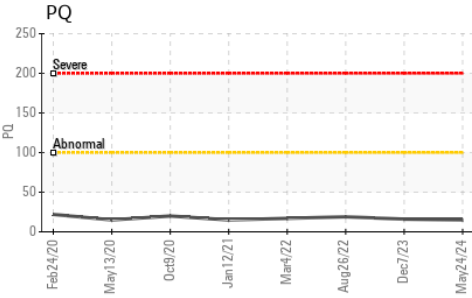
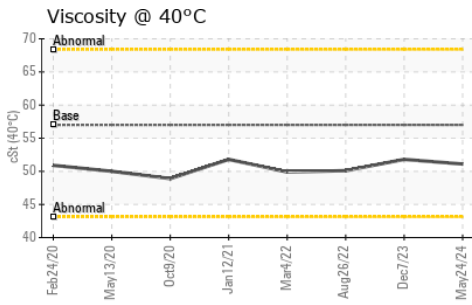
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>31	3	4	4
Potassium	ppm	ASTM D5185m	>20	0	<1	2
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 fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	3	3	2
Boron	ppm	ASTM D5185m	6	2	<1	5
Barium	ppm	ASTM D5185m	0	1	0	2
Molybdenum	ppm	ASTM D5185m	0	<1	4	2
Manganese	ppm	ASTM D5185m		1	<1	1
Magnesium	ppm	ASTM D5185m	145	104	77	96
Calcium	ppm	ASTM D5185m	3570	3430	3303	3331
Phosphorus	ppm	ASTM D5185m	1290	1065	1104	996
Zinc	ppm	ASTM D5185m	1640	1244	1250	1208
Sulfur	ppm	ASTM D5185m		3979	3370	3315
Visc @ 40°C	cSt	ASTM D445	57.0	51.1	51.8	50.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0212626 **Received** : 30 May 2024
Lab Number : 06195656 **Tested** : 31 May 2024
Unique Number : 11057779 **Diagnosed** : 01 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - GARNER
 4161 AUBURN CHURCH RD
 GARNER, NC
 US 27529

Contact: RALEIGH SHOP
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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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