



WEAR	NORMAL
CONTAMINATION	MARGINAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 410E 1DW410EBVMF708949
Component
Front Differential
Fluid
JOHN DEERE HY-GARD HYD/TRANS (18 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0220080	JR0206571	JR0193445
Sample Date		Client Info		25 Jun 2024	06 Mar 2024	29 Nov 2023
Machine Age	hrs	Client Info		5493	5006	4623
Oil Age	hrs	Client Info		4442	4338	668
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Not Changd	N/A
Sample Status				MARGINAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		14	18	18
Iron	ppm	ASTM D5185m	>500	1	35	8
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>10	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	<1
Lead	ppm	ASTM D5185m	>25	<1	15	<1
Copper	ppm	ASTM D5185m	>100	<1	3	2
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

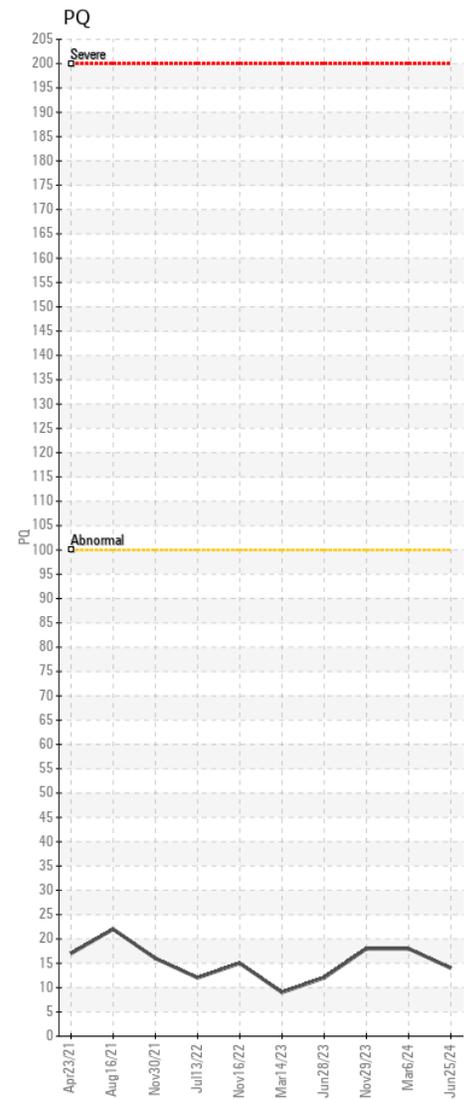
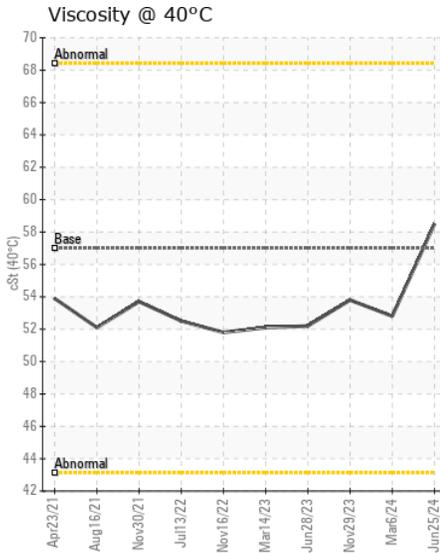
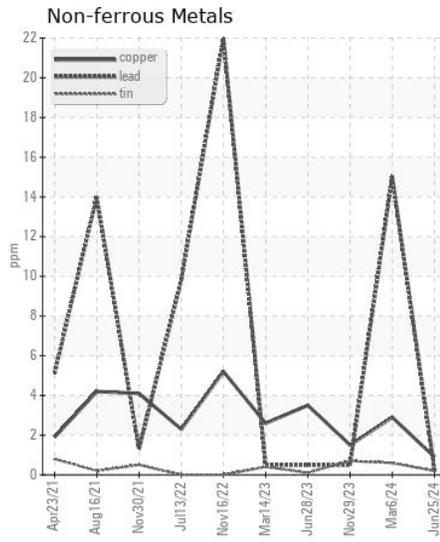
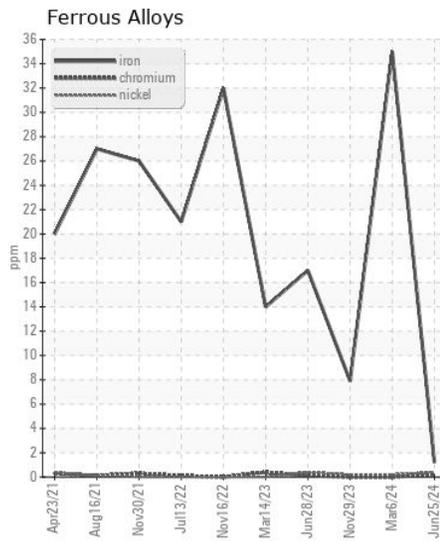
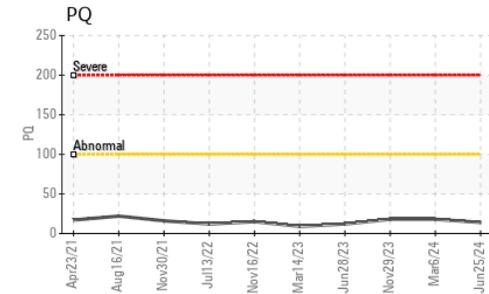
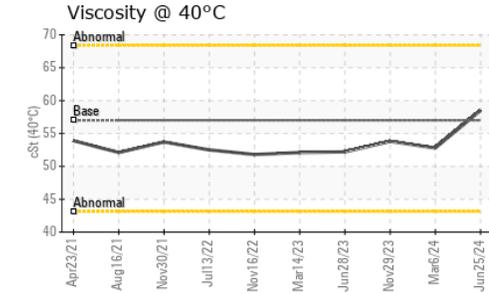
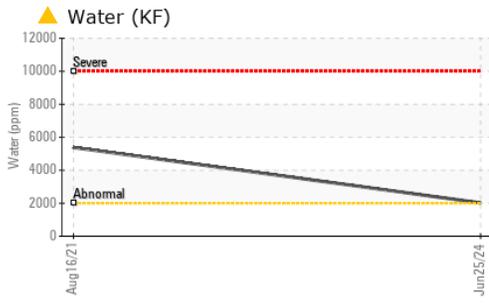
There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>75	4	6	2
Potassium	ppm	ASTM D5185m	>20	2	1	<1
Water	%	ASTM D6304	>.2	▲ 0.202	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 2020	---	---
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	0.2%	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<1	3	1
Boron	ppm	ASTM D5185m	6	1	2	<1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	145	97	87	102
Calcium	ppm	ASTM D5185m	3570	3376	2899	3325
Phosphorus	ppm	ASTM D5185m	1290	1008	959	1058
Zinc	ppm	ASTM D5185m	1640	1272	1101	1270
Sulfur	ppm	ASTM D5185m		3801	3680	3685
Visc @ 40°C	cSt	ASTM D445	57.0	58.5	52.8	53.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0220080 **Received** : 01 Jul 2024
Lab Number : 06224720 **Tested** : 02 Jul 2024
Unique Number : 11102917 **Diagnosed** : 02 Jul 2024 - Don Baldridge
Test Package : CONST (Additional Tests: KF, 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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