



Area
[W8471]
 Machine Id
JOHN DEERE 410E-II 1DW410ELPNF713346
 Component
Front Axle
 Fluid
JOHN DEERE GL-5 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W8471)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0197018	JR0183431	JR0077889
Sample Date		Client Info		09 Feb 2024	15 Sep 2023	20 Oct 2022
Machine Age	hrs	Client Info		2557	1995	512
Oil Age	hrs	Client Info		562	1995	512
Filter Age	hrs	Client Info		562	1995	0
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	Changed
Sample Status				ATTENTION	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184		14	20	25
Iron	ppm	ASTM D5185m	>1501	30	41	23
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>21	2	5	2
Lead	ppm	ASTM D5185m	>51	13	24	15
Copper	ppm	ASTM D5185m	>101	26	53	35
Tin	ppm	ASTM D5185m	>10	1	3	2
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

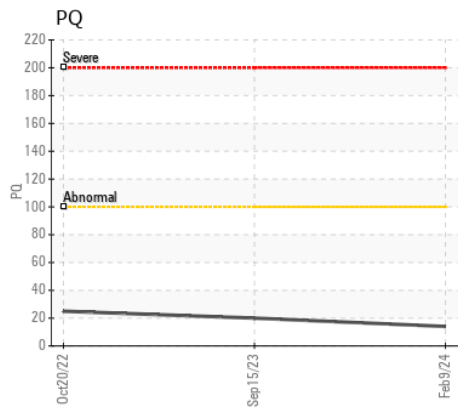
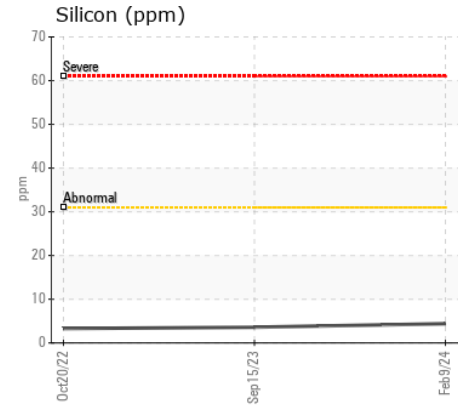
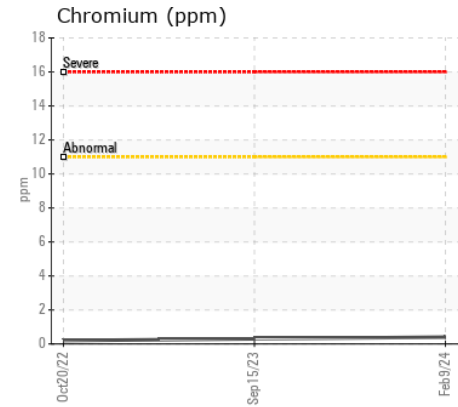
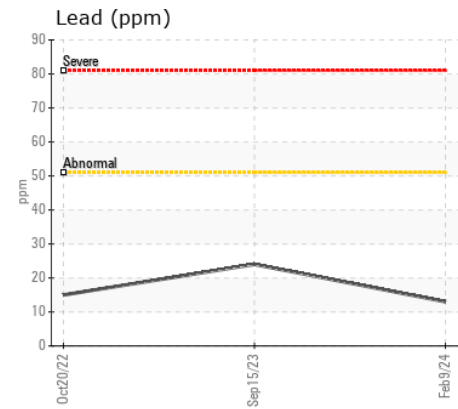
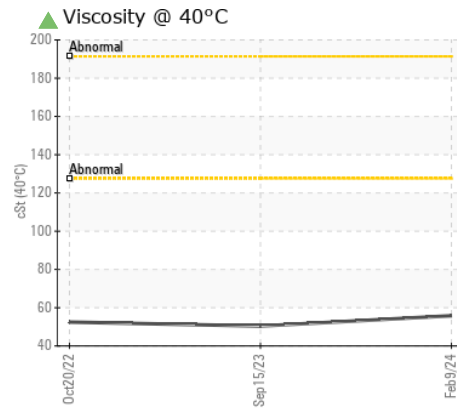
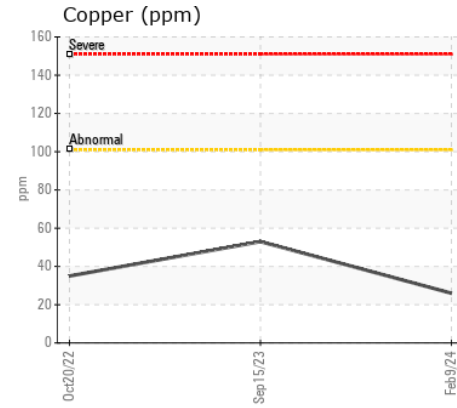
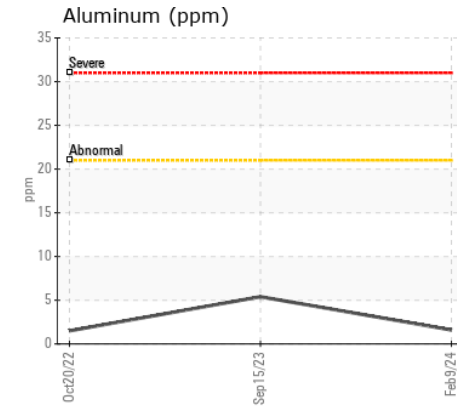
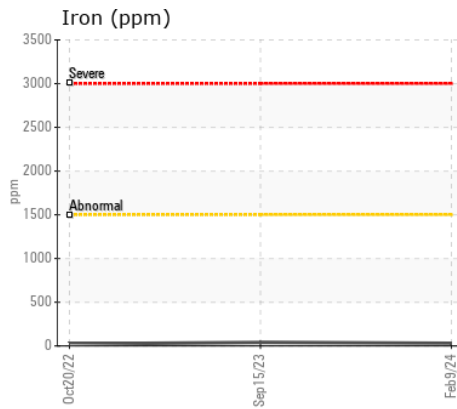
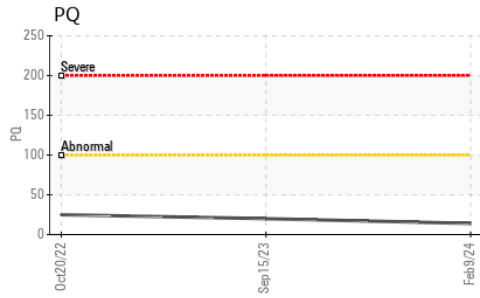
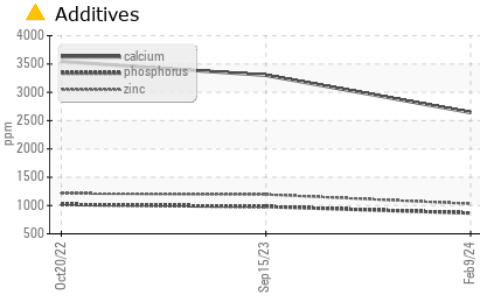
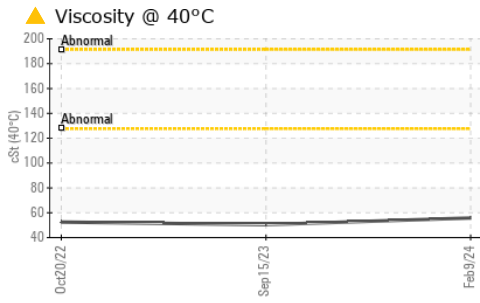
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	4	4	3
Potassium	ppm	ASTM D5185m	>20	3	0	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 oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Sodium	ppm	ASTM D5185m	>51	1	5	4
Boron	ppm	ASTM D5185m		▲ 2	▲ 0	0
Barium	ppm	ASTM D5185m		21	2	3
Molybdenum	ppm	ASTM D5185m		3	0	<1
Manganese	ppm	ASTM D5185m		1	2	2
Magnesium	ppm	ASTM D5185m		▲ 87	▲ 94	96
Calcium	ppm	ASTM D5185m		▲ 2642	▲ 3301	3545
Phosphorus	ppm	ASTM D5185m		866	▲ 980	1018
Zinc	ppm	ASTM D5185m		▲ 1030	▲ 1195	1213
Sulfur	ppm	ASTM D5185m		▲ 2695	▲ 4057	4266
Visc @ 40°C	cSt	ASTM D445		▲ 55.8	▲ 50.4	52.5



Certificate L2367

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

Sample No. : JR0197018

Lab Number : 06087652

Unique Number : 10875097

Test Package : MOBCE (Additional Tests: PQ)

Received : 13 Feb 2024

Tested : 14 Feb 2024

Diagnosed : 14 Feb 2024 - Don Baldrige

JRE - HOPE MILLS/FAYETTEVILLE

5039 HWY 301 SOUTH

HOPE MILLS, NC

US 28348

Contact: FAYETTEVILLE SHOP

stephen.mullis@jamesriverequipment.com;canastasio@wearcheck.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: