



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 410E-II 1DW410ELJMF710562
 Component
Diesel Engine
 Fluid
{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0190920	JR0175622	JR0139143
Sample Date		Client Info		05 Dec 2023	11 Jul 2023	15 Aug 2022
Machine Age	hrs	Client Info		3663	2986	2060
Oil Age	hrs	Client Info		677	3243	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	21	42	33
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	1	<1	2
Titanium	ppm	ASTM D5185m		1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	4	6	6
Lead	ppm	ASTM D5185m	>26	0	5	6
Copper	ppm	ASTM D5185m	>26	7	10	21
Tin	ppm	ASTM D5185m	>4	0	2	4
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

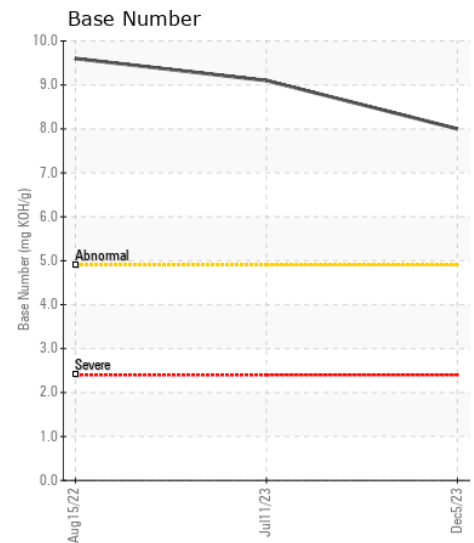
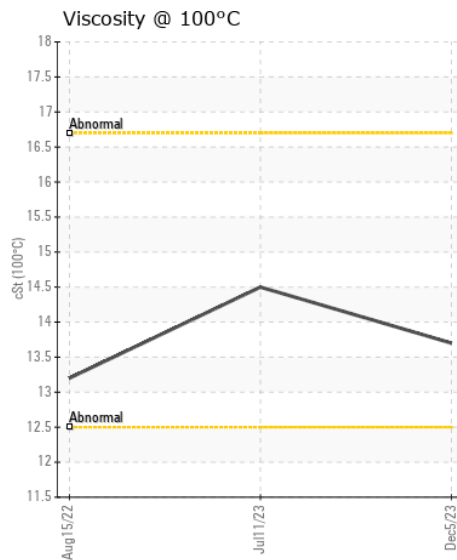
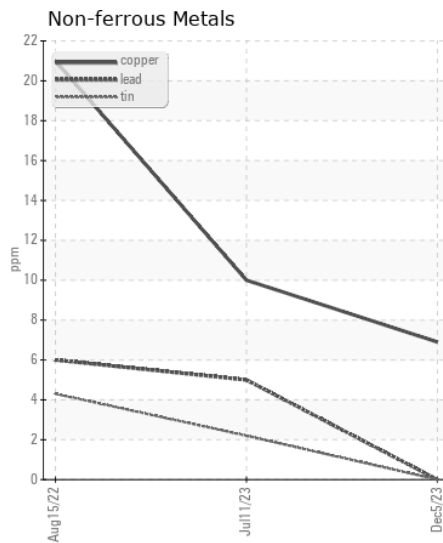
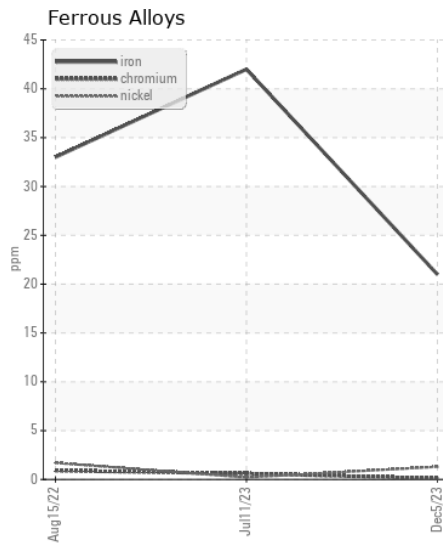
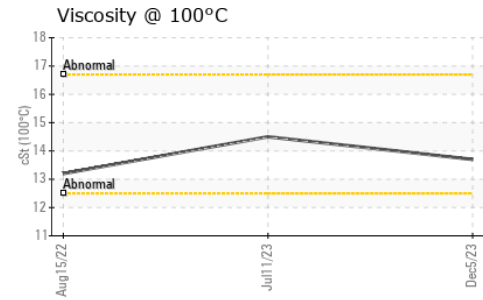
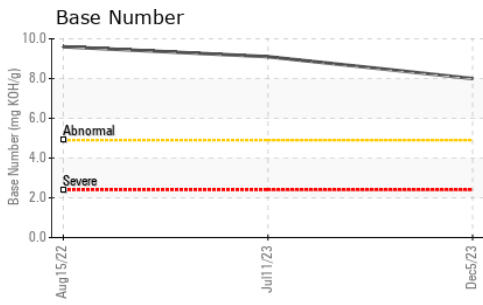
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	8	6	7
Potassium	ppm	ASTM D5185m	>20	2	2	3
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	▲ 3.3	▲ 3.2
Nitration	Abs/cm	*ASTM D7624	>20	9.9	11.3	12.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.5	28.8	30.3
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	>0.21	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>31	2	0	5
Boron	ppm	ASTM D5185m		132	141	91
Barium	ppm	ASTM D5185m		3	0	2
Molybdenum	ppm	ASTM D5185m		242	242	226
Manganese	ppm	ASTM D5185m		0	<1	1
Magnesium	ppm	ASTM D5185m		786	699	671
Calcium	ppm	ASTM D5185m		1388	1296	1448
Phosphorus	ppm	ASTM D5185m		792	808	832
Zinc	ppm	ASTM D5185m		1037	984	1060
Sulfur	ppm	ASTM D5185m		2983	2914	3175
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.9	18.2	18.3
Base Number (BN)	mg KOH/g	ASTM D2896		8.0	9.1	9.6
Visc @ 100°C	cSt	ASTM D445		13.7	14.5	13.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0190920 **Received** : 06 Dec 2023
Lab Number : 06026147 **Tested** : 07 Dec 2023
Unique Number : 10775938 **Diagnosed** : 07 Dec 2023 - Don Baldrige
Test Package : CONST (Additional Tests: TBN)

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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