



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[W8471]
 Machine Id
JOHN DEERE 410E-II 1DW410ELPNF713346
 Component
Hydraulic System
 Fluid
JOHN DEERE HYDRAU (--- 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		JR0197016	JR0183433	JR0141449
Sample Date		Client Info		09 Feb 2024	15 Sep 2023	20 Oct 2022
Machine Age	hrs	Client Info		1995	1995	512
Oil Age	hrs	Client Info		2557	1995	512
Filter Age	hrs	Client Info		2557	1995	0
Oil Changed		Client Info		Not Chngd	Changed	Not Chngd
Filter Changed		Client Info		Not Chngd	Changed	Not Chngd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	11	13	8
Iron	ppm	ASTM D5185m	>71	4	5	1
Chromium	ppm	ASTM D5185m	>11	<1	0	0
Nickel	ppm	ASTM D5185m	>6	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>11	2	5	0
Lead	ppm	ASTM D5185m	>13	0	0	0
Copper	ppm	ASTM D5185m	>21	1	1	<1
Tin	ppm	ASTM D5185m	>5	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

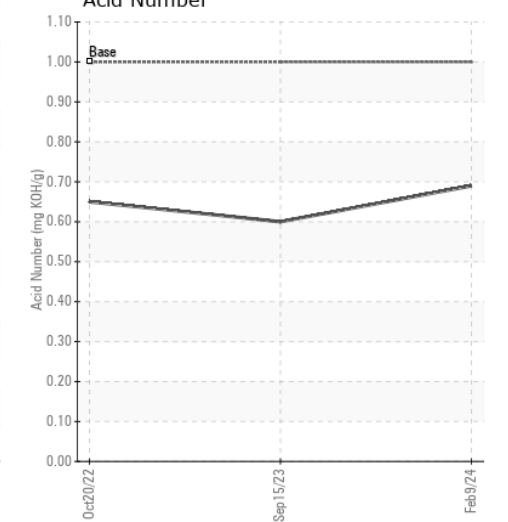
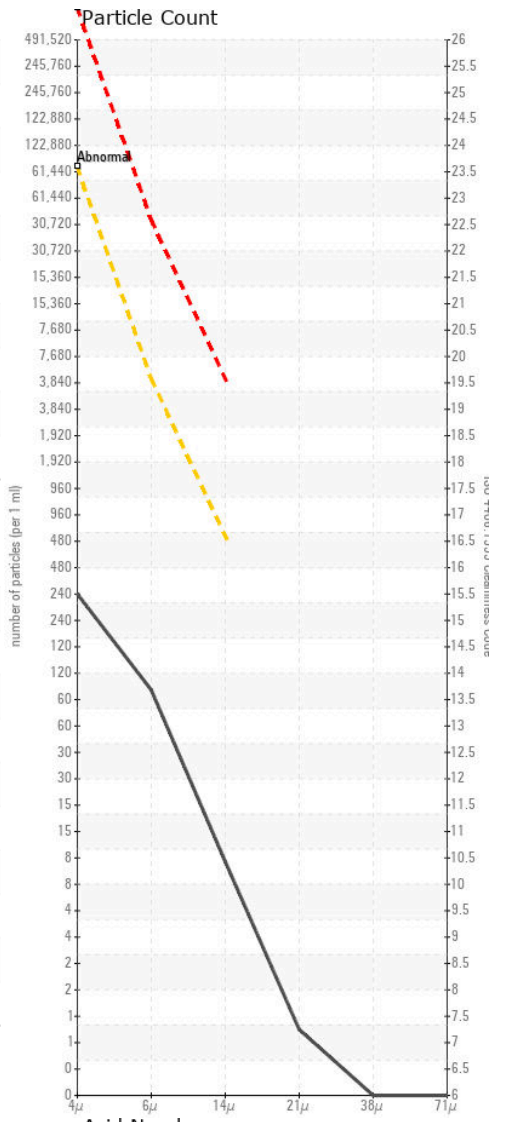
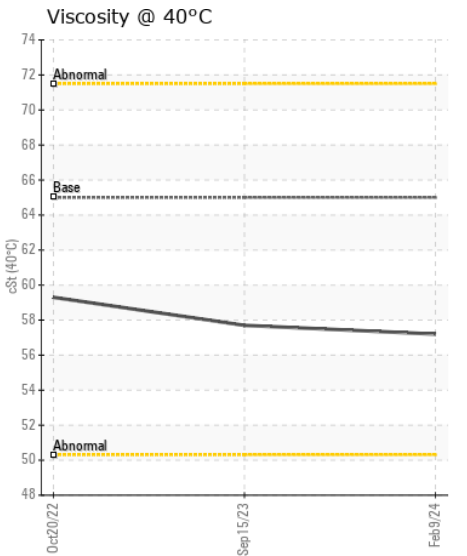
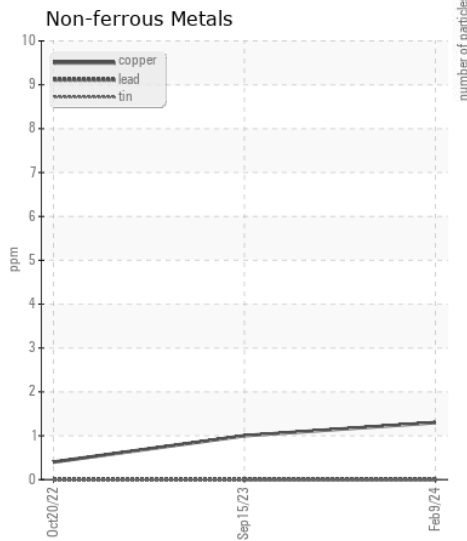
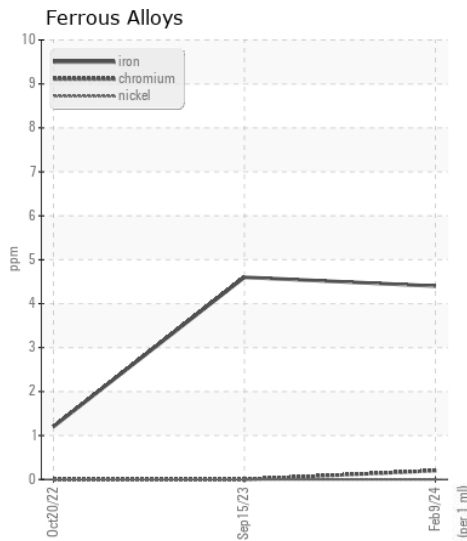
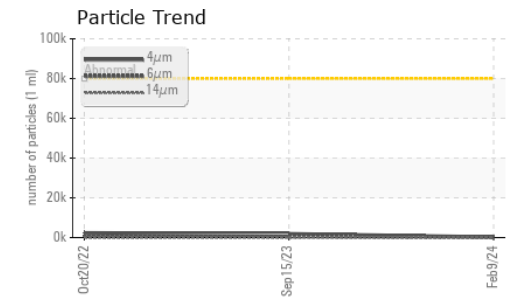
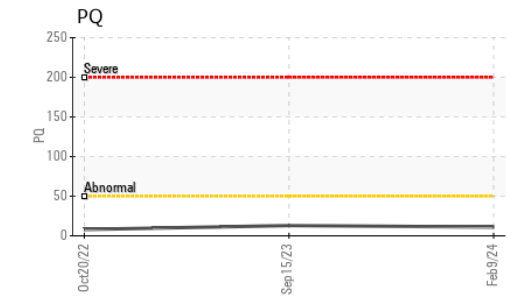
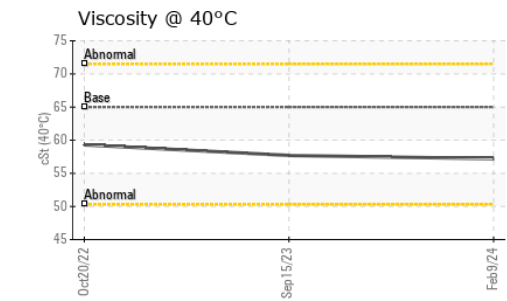
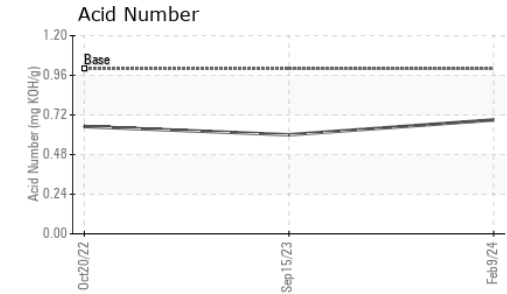
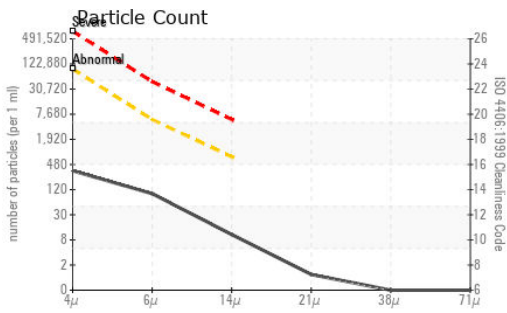
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>24	2	2	1
Potassium	ppm	ASTM D5185m	>20	2	2	0
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	299	1965	2414
Particles >6µm		ASTM D7647	>5000	85	461	443
Particles >14µm		ASTM D7647	>640	9	34	26
Particles >21µm		ASTM D7647	>160	1	10	6
Particles >38µm		ASTM D7647	>40	0	1	1
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	15/14/10	18/16/12	18/16/12
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	>0.075	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	2	3	2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		<1	<1	0
Calcium	ppm	ASTM D5185m	87	83	95	80
Phosphorus	ppm	ASTM D5185m	727	628	614	654
Zinc	ppm	ASTM D5185m	900	815	828	903
Sulfur	ppm	ASTM D5185m	1500	1552	1888	1897
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.69	0.60	0.65
Visc @ 40°C	cSt	ASTM D445	65	57.2	57.7	59.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0197016 **Received** : 13 Feb 2024
Lab Number : 06087173 **Tested** : 14 Feb 2024
Unique Number : 10874618 **Diagnosed** : 14 Feb 2024 - Angela Borella
Test Package : MOBCE (Additional Tests: PQ)

JRE - HOPE MILLS/FAYETTEVILLE
 5039 HWY 301 SOUTH
 HOPE MILLS, NC
 US 28348
 Contact: FAYETTEVILLE SHOP
 stephen.mullis@jamesriverequipment.com; panastasio@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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