



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[W67297]
 Machine Id
JOHN DEERE 410E 1DW410EBHNF716068
 Component
Hydraulic System
 Fluid
JOHN DEERE HYDRAU (25 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W67297)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0215603	JR0192739	JR0170992
Sample Date		Client Info		28 May 2024	16 Nov 2023	12 Jul 2023
Machine Age	hrs	Client Info		4751682	4751682	4751016
Oil Age	hrs	Client Info		4751682	4751682	475
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184	>50	16	11	9
Iron	ppm	ASTM D5185m	>71	4	0	2
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>6	<1	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>11	<1	2	0
Lead	ppm	ASTM D5185m	>13	<1	0	0
Copper	ppm	ASTM D5185m	>21	1	<1	<1
Tin	ppm	ASTM D5185m	>5	<1	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

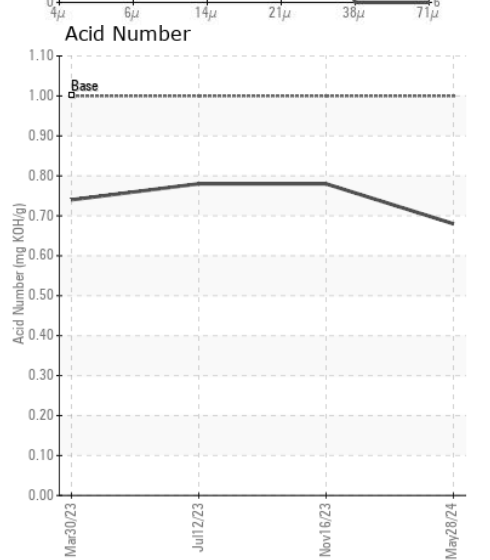
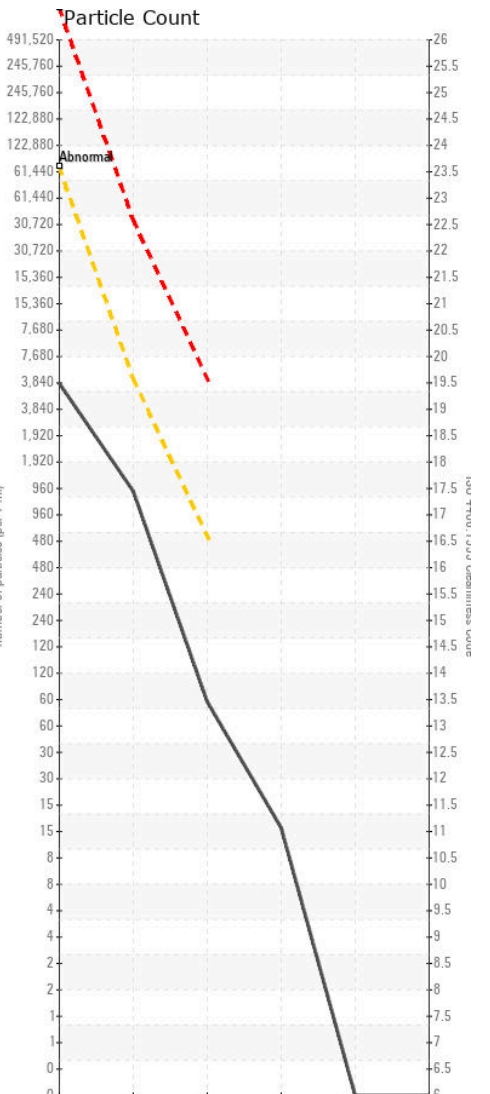
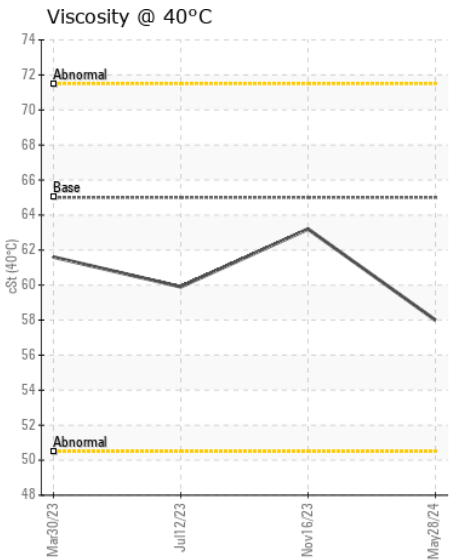
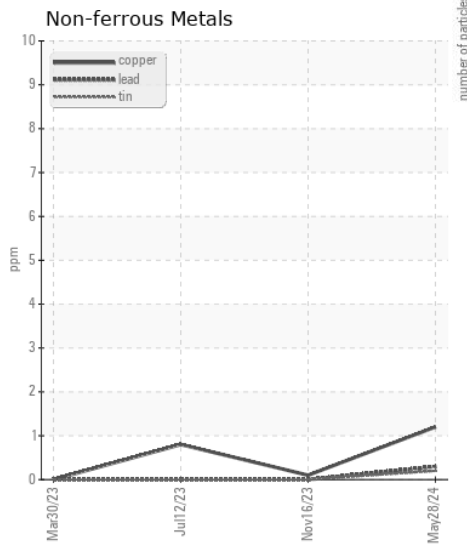
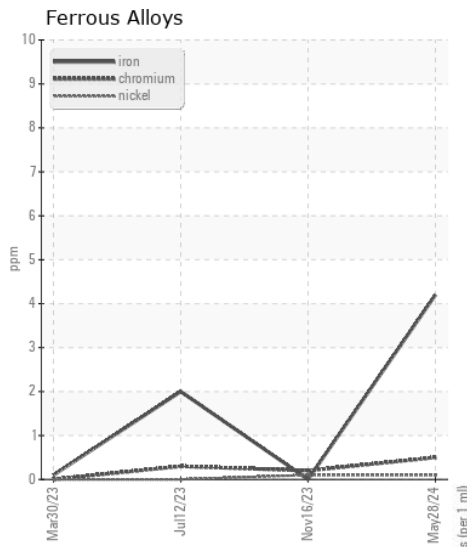
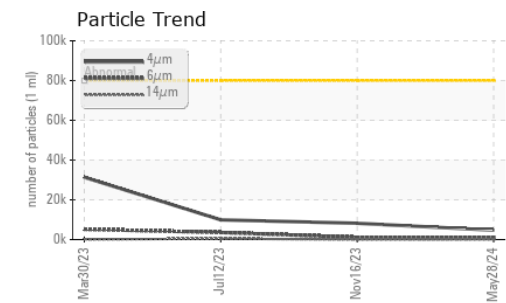
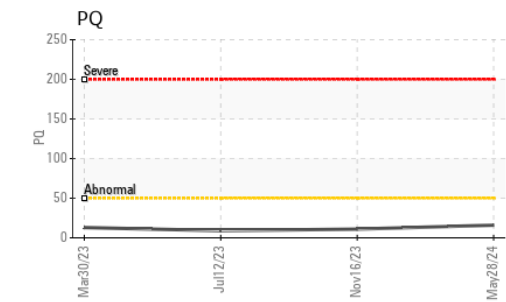
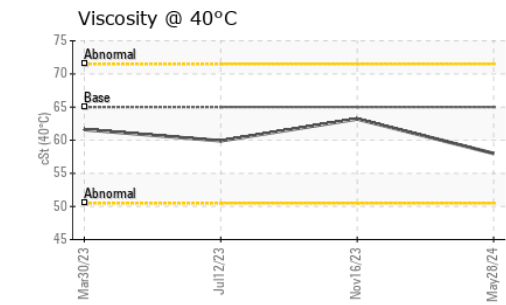
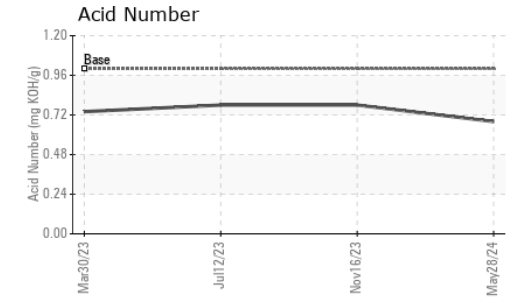
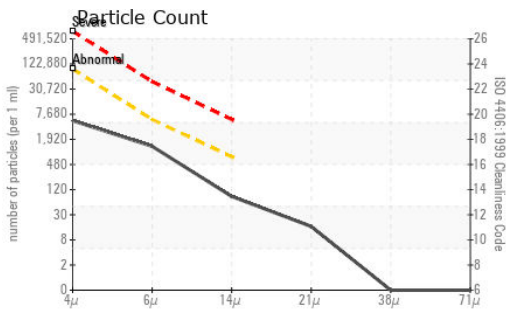
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>24	2	<1	<1
Potassium	ppm	ASTM D5185m	>20	3	<1	3
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	4709	8209	9928
Particles >6µm		ASTM D7647	>5000	1146	1134	3561
Particles >14µm		ASTM D7647	>640	73	40	408
Particles >21µm		ASTM D7647	>160	14	8	116
Particles >38µm		ASTM D7647	>40	0	0	3
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/19/16	19/17/13	20/17/12	20/19/16
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	<1	0	2
Boron	ppm	ASTM D5185m		0	8	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	8	<1
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		2	25	2
Calcium	ppm	ASTM D5185m	87	93	128	93
Phosphorus	ppm	ASTM D5185m	727	703	682	659
Zinc	ppm	ASTM D5185m	900	906	880	874
Sulfur	ppm	ASTM D5185m	1500	1839	1820	2036
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.68	0.78	0.78
Visc @ 40°C	cSt	ASTM D445	65	58.0	63.2	59.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0215603 **Received** : 30 May 2024
Lab Number : 06195313 **Tested** : 03 Jun 2024
Unique Number : 11057436 **Diagnosed** : 03 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ, PrtCount)

JRE - CHARLOTTE
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 US 28269
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 F: (704)596-6198

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)