



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
2006 JOHN DEERE 650J 9X1 (S/N T0650VX127477)

Component
Transmission

Fluid
JOHN DEERE HY-GARD HYD/TRANS (11 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0191253	JR0149500	WCMCF06890
Sample Date		Client Info		21 Dec 2023	17 Nov 2022	17 Dec 2014
Machine Age	hrs	Client Info		1510	1437	867
Oil Age	hrs	Client Info		1509	1437	867
Filter Age	hrs	Client Info		0	1437	867
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Filter Changed		Client Info		N/A	Not Changd	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>200	6	6	5
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m		0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>50	1	<1	<1
Lead	ppm	ASTM D5185m	>50	11	12	7
Copper	ppm	ASTM D5185m	>200	24	25	15
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

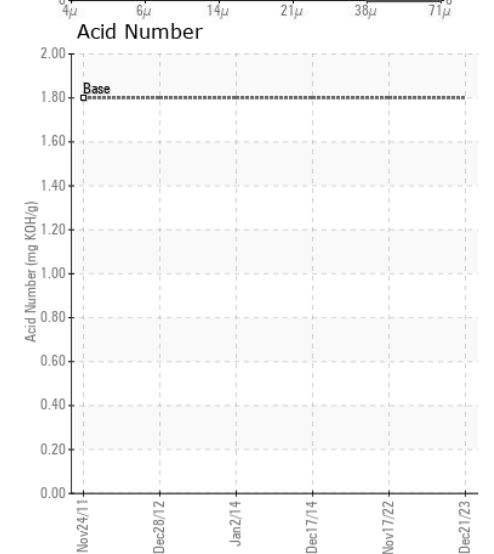
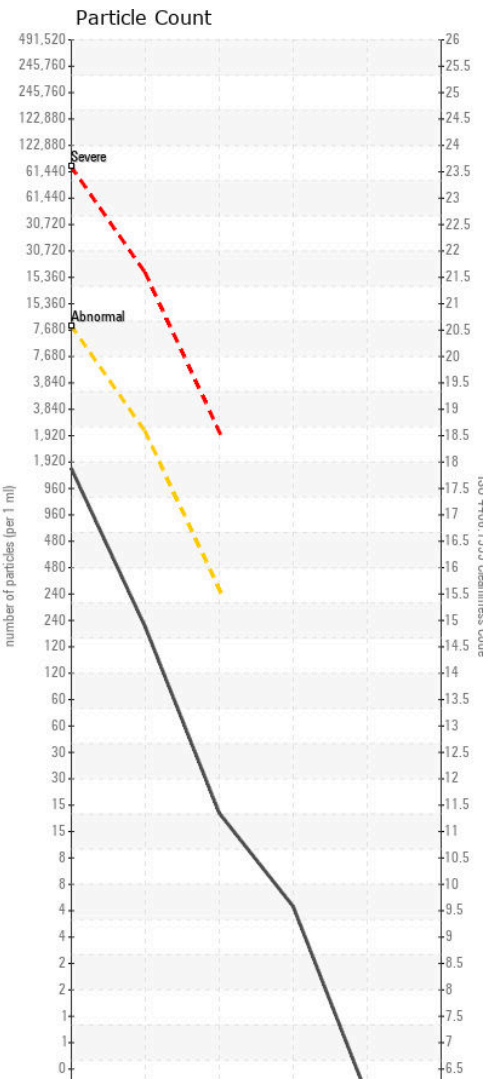
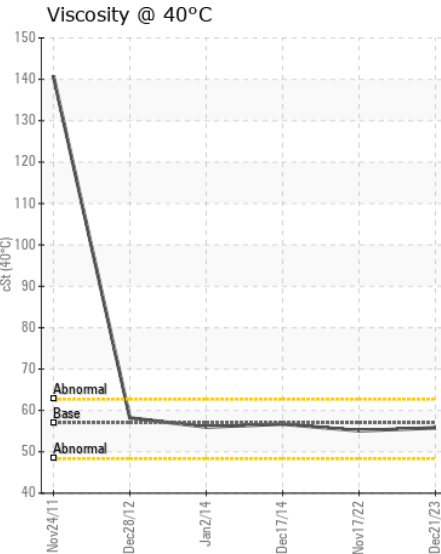
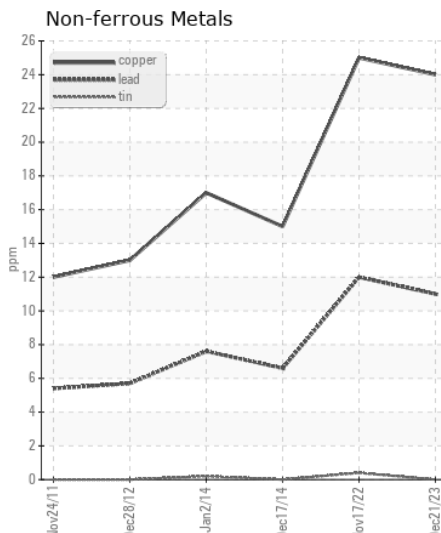
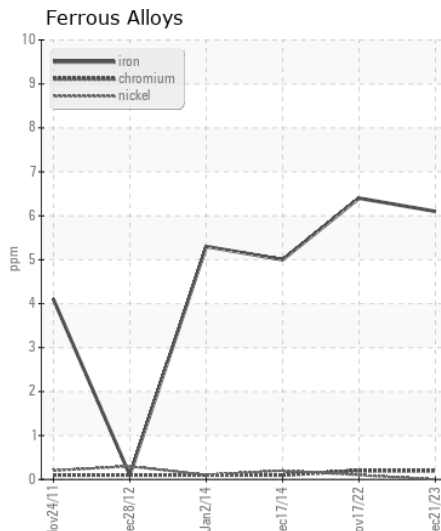
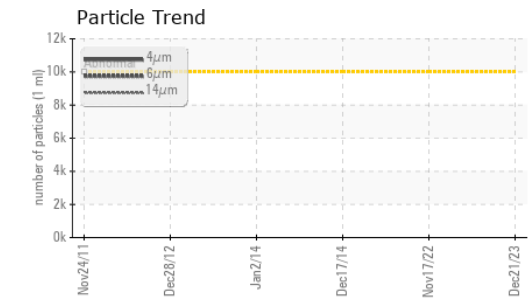
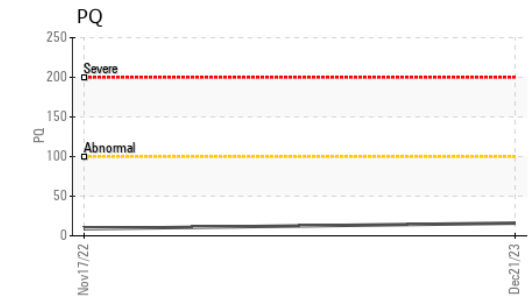
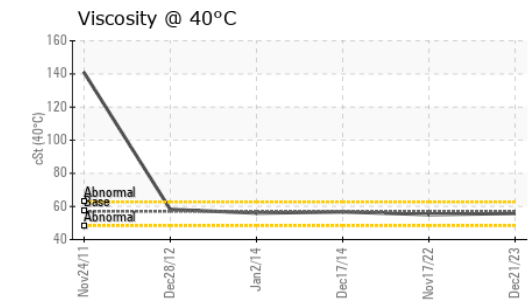
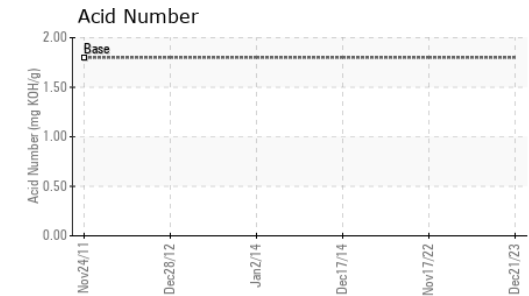
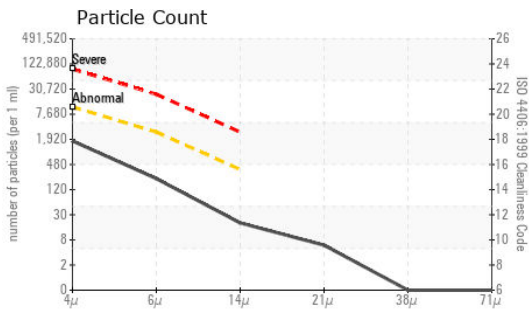
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>50	18	18	19
Potassium	ppm	ASTM D5185m	>20	6	3	5
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>10000	1545	---	---
Particles >6µm		ASTM D7647	>2500	194	---	---
Particles >14µm		ASTM D7647	>320	17	---	---
Particles >21µm		ASTM D7647	>80	5	---	---
Particles >38µm		ASTM D7647	>20	0	---	---
Particles >71µm		ASTM D7647	>4	0	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	18/15/11	---	---
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 AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

Sodium	ppm	ASTM D5185m		2	4	3
Boron	ppm	ASTM D5185m	6	21	25	19
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	13	15	14
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	145	224	234	233
Calcium	ppm	ASTM D5185m	3570	2776	2493	2450
Phosphorus	ppm	ASTM D5185m	1290	1088	1095	1133
Zinc	ppm	ASTM D5185m	1640	1348	1329	1233
Sulfur	ppm	ASTM D5185m		4057	4447	2958
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	1.56	---	---
Visc @ 40°C	cSt	ASTM D445	57.0	55.8	55.1	56.71



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0191253 **Received** : 17 Jan 2024
Lab Number : 06062525 **Diagnosed** : 18 Jan 2024
Unique Number : 10833907 **Diagnostician** : Wes Davis
Test Package : CONST (Additional Tests: PQ, PrtCount)

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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)