



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 300DII 510 (S/N 1DW300DXCEE662162)
Component
Hydraulic System
Fluid
JOHN DEERE HY-GARD HYD/TRANS (21 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		R005993616	---	---
Sample Date		Client Info		21 Oct 2023	---	---
Machine Age	hrs	Client Info		8440	---	---
Oil Age	hrs	Client Info		4116	---	---
Filter Age	hrs	Client Info		4116	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				NORMAL	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>23	22	---	---
Chromium	ppm	ASTM D5185m	>9	8	---	---
Nickel	ppm	ASTM D5185m	>5	0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>9	3	---	---
Lead	ppm	ASTM D5185m	>28	0	---	---
Copper	ppm	ASTM D5185m	>51	9	---	---
Tin	ppm	ASTM D5185m	>5	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

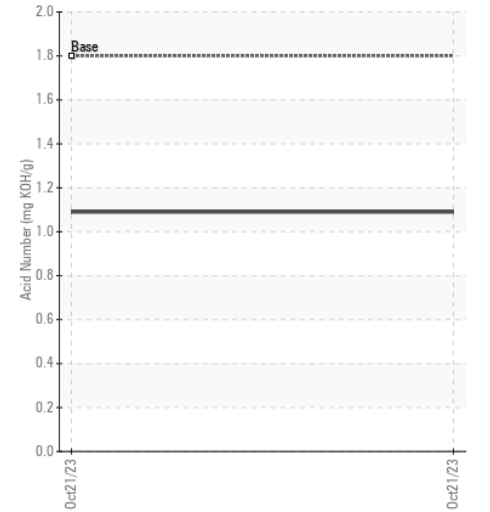
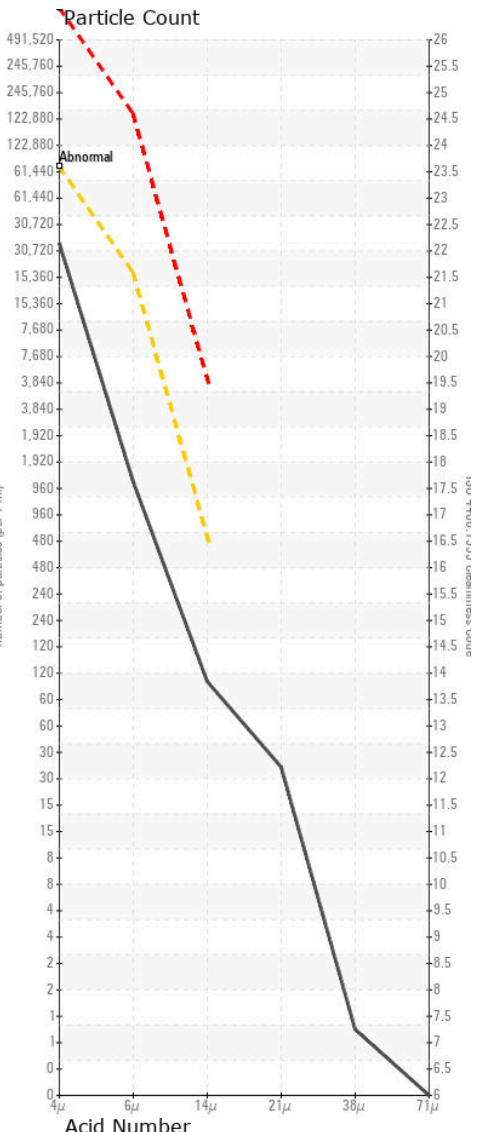
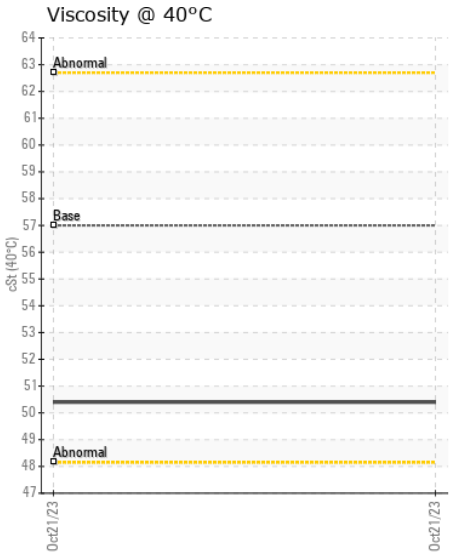
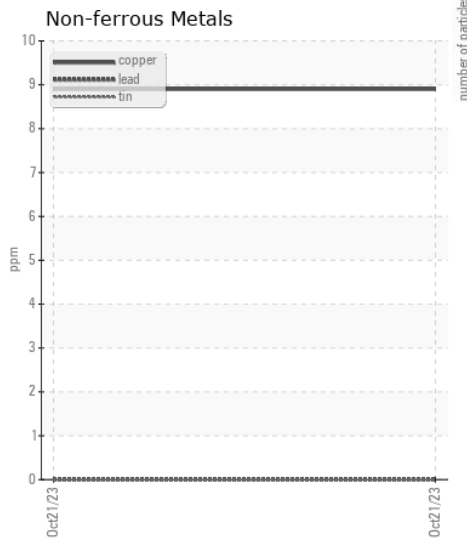
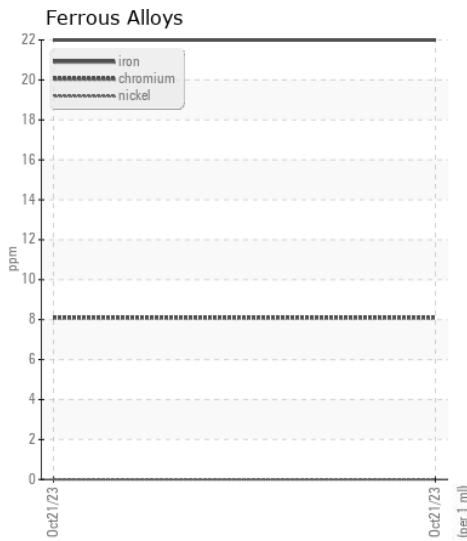
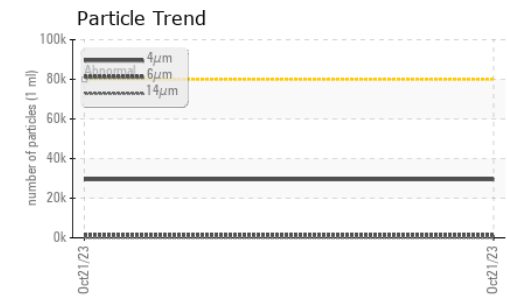
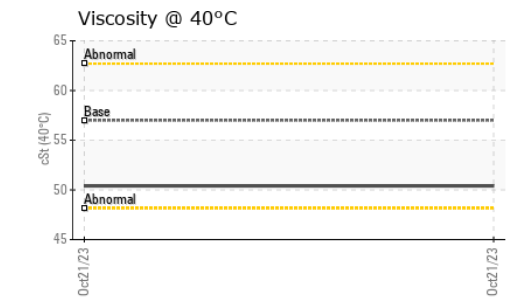
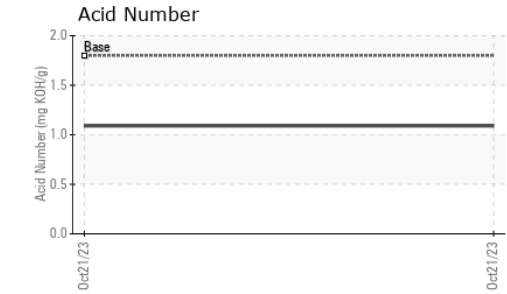
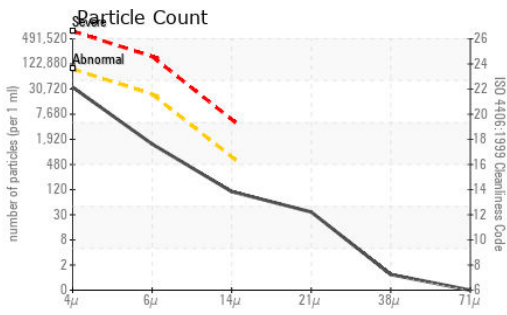
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>31	11	---	---
Potassium	ppm	ASTM D5185m	>20	2	---	---
Water		WC Method	>0.075	NEG	---	---
Particles >4µm		ASTM D7647	>80000	29461	---	---
Particles >6µm		ASTM D7647	>20000	1296	---	---
Particles >14µm		ASTM D7647	>640	95	---	---
Particles >21µm		ASTM D7647	>160	31	---	---
Particles >38µm		ASTM D7647	>40	1	---	---
Particles >71µm		ASTM D7647	>10	0	---	---
Oil Cleanliness		ISO 4406 (c)	>23/21/16	22/17/14	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	LIGHT	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.075	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	6	---	---
Boron	ppm	ASTM D5185m	6	33	---	---
Barium	ppm	ASTM D5185m	0	0	---	---
Molybdenum	ppm	ASTM D5185m	0	<1	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m	145	67	---	---
Calcium	ppm	ASTM D5185m	3570	3144	---	---
Phosphorus	ppm	ASTM D5185m	1290	993	---	---
Zinc	ppm	ASTM D5185m	1640	1189	---	---
Sulfur	ppm	ASTM D5185m		3447	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	1.09	---	---
Visc @ 40°C	cSt	ASTM D445	57.0	50.4	---	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RO05993616 **Received** : 30 Oct 2023
Lab Number : 05993616 **Tested** : 01 Nov 2023
Unique Number : 10716278 **Diagnosed** : 01 Nov 2023 - Wes Davis
Test Package : MOB 2

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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)