



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[05W47740]

Machine Id

JOHN DEERE 350G 1FF350GXVJF813095

Component

Hydraulic System

Fluid

JOHN DEERE ZINC-FREE HYDRAULIC OIL 46 (50 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0225434	JR0187611	JR0169030
Sample Date		Client Info		08 Jul 2024	15 Sep 2023	17 Apr 2023
Machine Age	hrs	Client Info		5018	4664	4447
Oil Age	hrs	Client Info		5018	0	4447
Filter Age	hrs	Client Info		1000	0	4447
Oil Changed		Client Info		Changed	Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Not Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	13	14	14
Iron	ppm	ASTM D5185m	>32	10	16	17
Chromium	ppm	ASTM D5185m	>9	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>9	2	0	2
Lead	ppm	ASTM D5185m	>28	<1	0	0
Copper	ppm	ASTM D5185m	>50	1	2	1
Tin	ppm	ASTM D5185m	>5	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

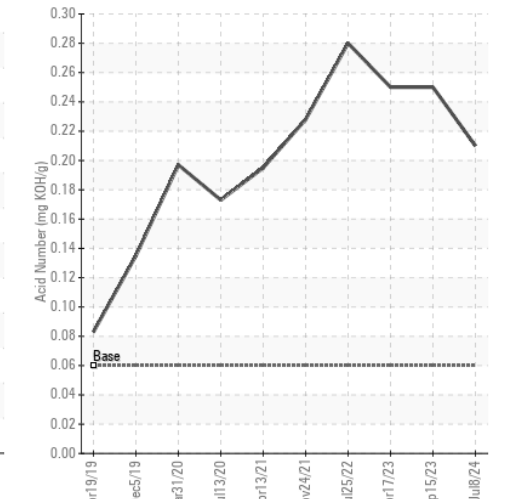
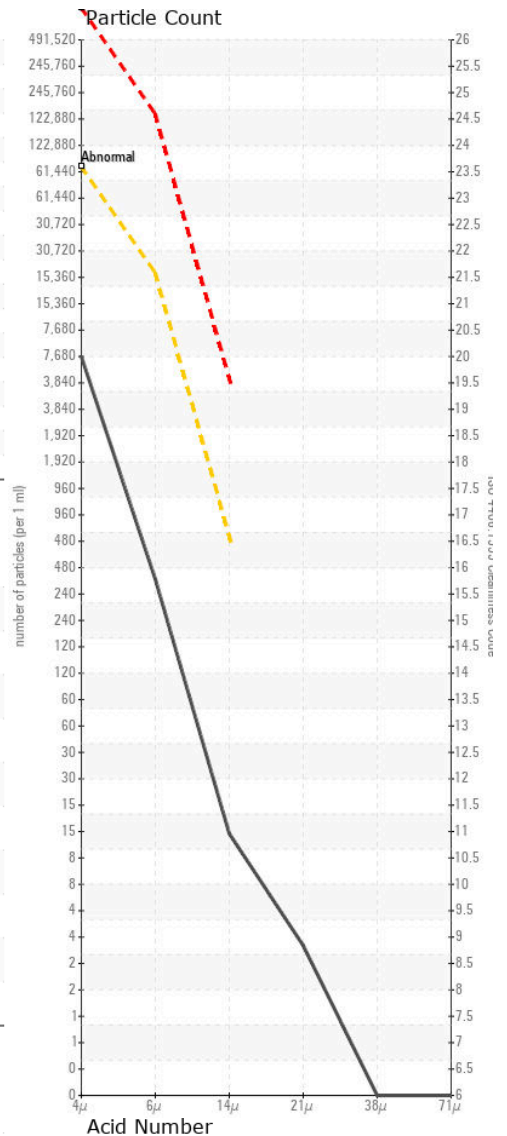
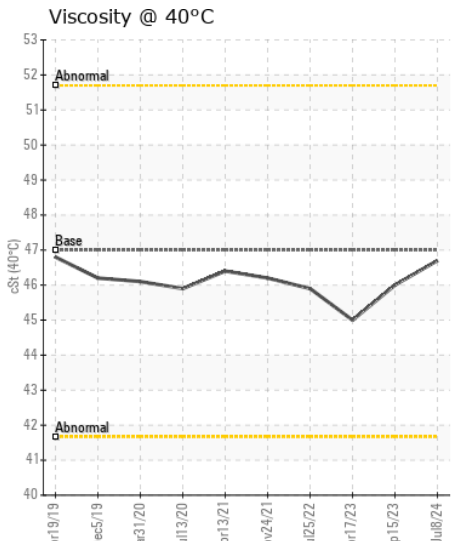
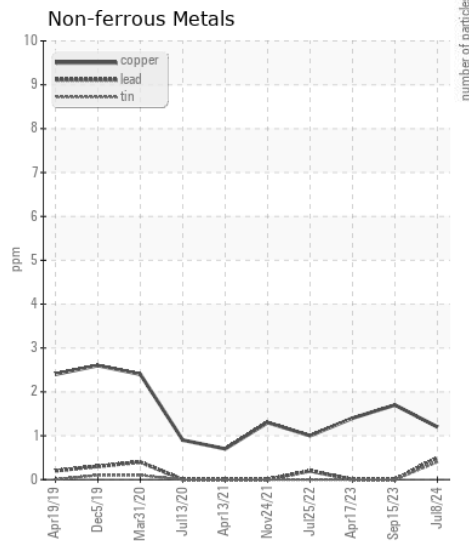
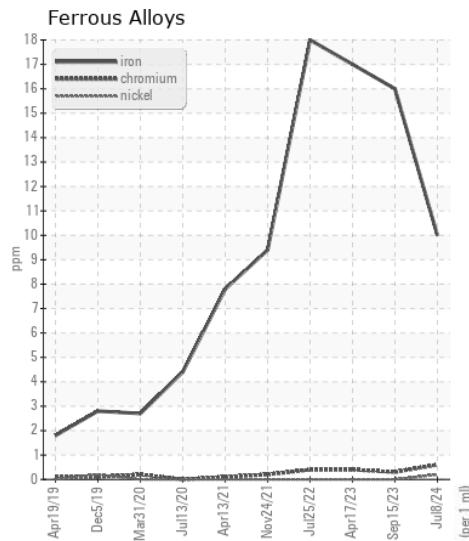
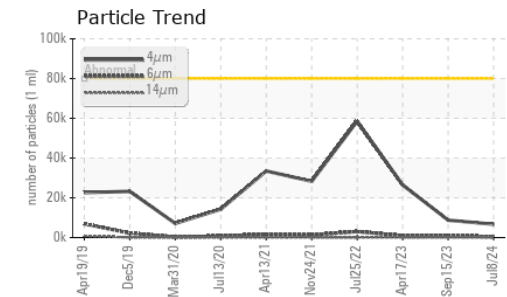
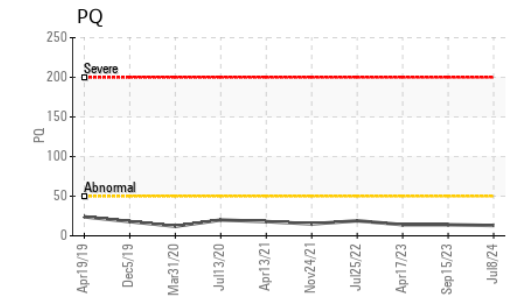
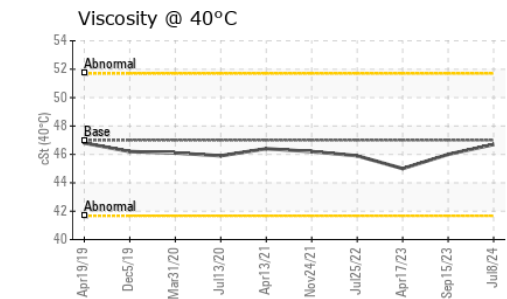
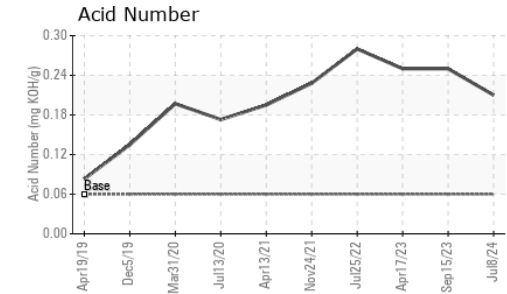
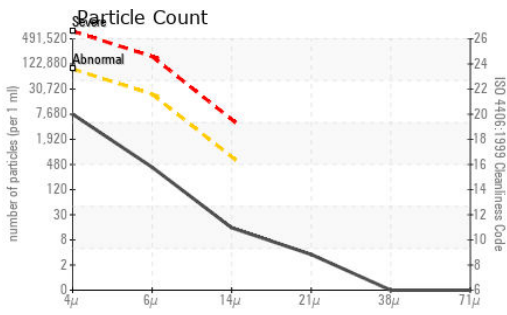
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>11	4	5	5
Potassium	ppm	ASTM D5185m	>20	2	<1	0
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	6691	8760	26482
Particles >6µm		ASTM D7647	>20000	363	1050	935
Particles >14µm		ASTM D7647	>640	13	80	21
Particles >21µm		ASTM D7647	>160	3	24	5
Particles >38µm		ASTM D7647	>40	0	2	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	20/16/11	20/17/13	22/17/12
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	0	<1	1
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		3	3	8
Calcium	ppm	ASTM D5185m		14	36	31
Phosphorus	ppm	ASTM D5185m		524	457	442
Zinc	ppm	ASTM D5185m		73	▲ 125	▲ 129
Sulfur	ppm	ASTM D5185m		294	516	553
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.21	0.25	0.25
Visc @ 40°C	cSt	ASTM D445	47	46.7	46.0	45.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0225434 **Received** : 09 Jul 2024
Lab Number : 06231412 **Tested** : 10 Jul 2024
Unique Number : 11114905 **Diagnosed** : 10 Jul 2024 - Don Baldridge
Test Package : CONST (Additional Tests: PQ)

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 Contact: DON VEST
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 F: (703)631-4715

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)