



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[W45068]

Machine Id

JOHN DEERE 245G 1FF245GXKKF801201

Component

Hydraulic System

Fluid

HITACHI HYDRAULIC SUPER EX 46HN (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0203089	JR0160190	JR0154510
Sample Date		Client Info		22 Feb 2024	23 Jan 2023	12 Jan 2023
Machine Age	hrs	Client Info		2991	2631	2631
Oil Age	hrs	Client Info		0	2631	0
Filter Age	hrs	Client Info		0	556	0
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Changed	None	Not Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	14	6	11
Iron	ppm	ASTM D5185m	>32	7	8	7
Chromium	ppm	ASTM D5185m	>9	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>9	<1	0	<1
Lead	ppm	ASTM D5185m	>28	0	<1	0
Copper	ppm	ASTM D5185m	>50	2	3	3
Tin	ppm	ASTM D5185m	>5	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

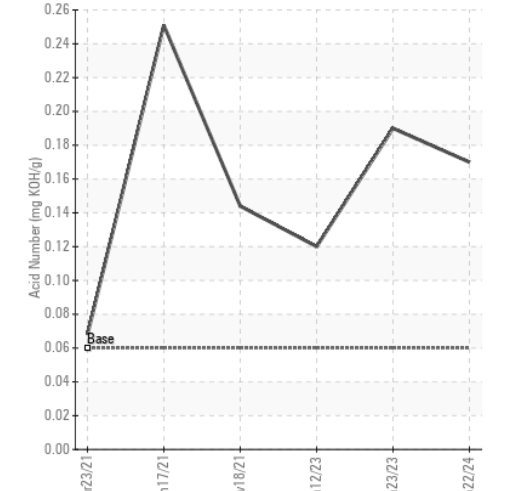
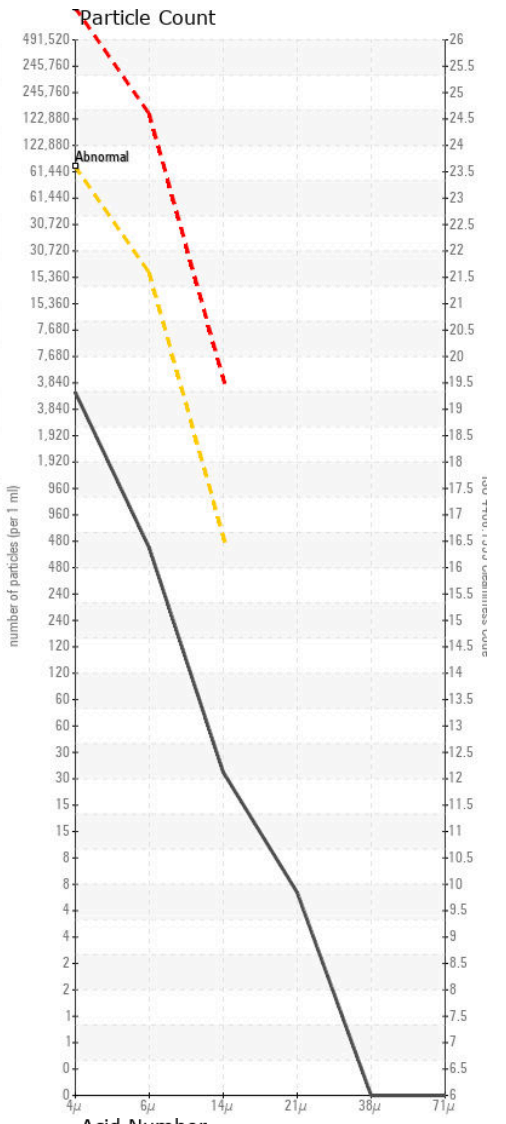
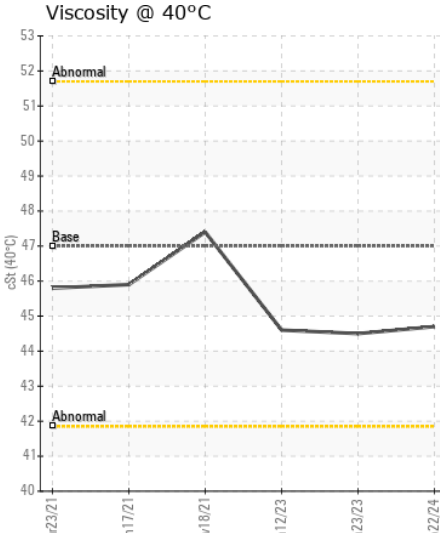
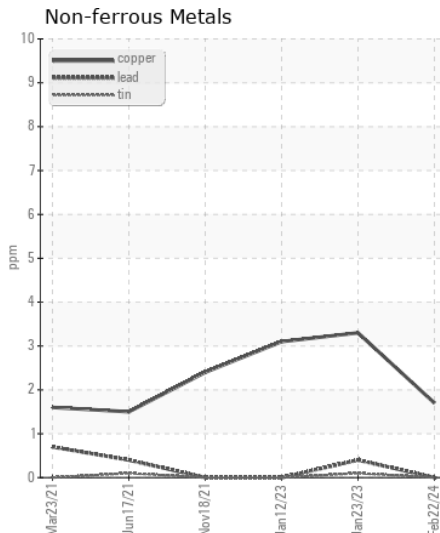
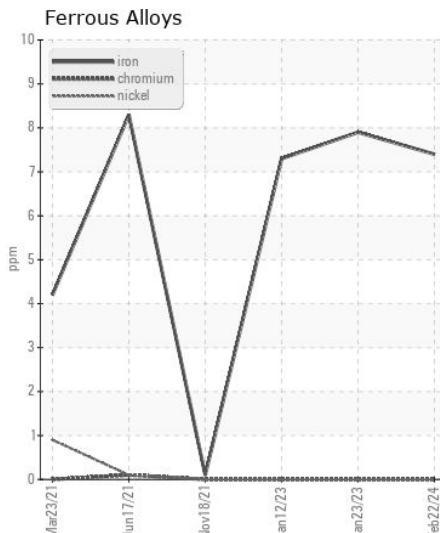
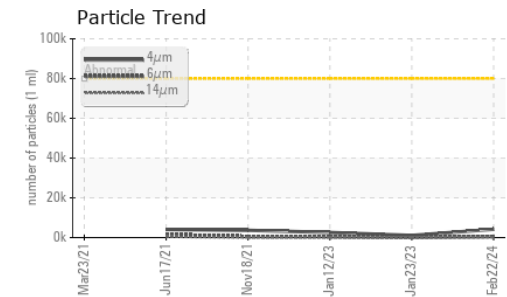
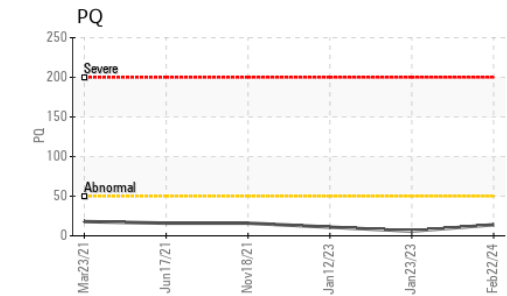
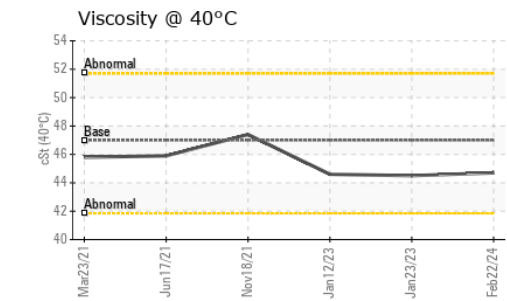
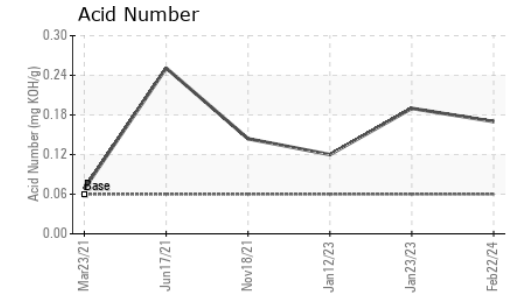
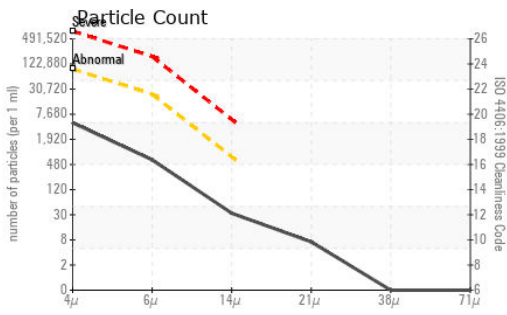
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>11	<1	1	<1
Potassium	ppm	ASTM D5185m	>20	0	3	0
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	4176	1081	2567
Particles >6µm		ASTM D7647	>20000	546	111	488
Particles >14µm		ASTM D7647	>640	29	6	33
Particles >21µm		ASTM D7647	>160	6	2	5
Particles >38µm		ASTM D7647	>40	0	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	19/16/12	17/14/10	19/16/12
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	<1	0	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		<1	2	<1
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		<1	1	0
Calcium	ppm	ASTM D5185m		3	5	2
Phosphorus	ppm	ASTM D5185m	827	481	492	496
Zinc	ppm	ASTM D5185m	0	50	55	53
Sulfur	ppm	ASTM D5185m	13	142	151	209
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.17	0.19	0.12
Visc @ 40°C	cSt	ASTM D445	47	44.7	44.5	44.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0203089 **Received** : 23 Feb 2024
Lab Number : 06099050 **Tested** : 26 Feb 2024
Unique Number : 10897280 **Diagnosed** : 26 Feb 2024 - Angela Borella
Test Package : CONST (Additional Tests: PQ)

JRE - MANASSAS PARK
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 MANASSAS PARK, VA
 US 20111
 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)