



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[44833]

Machine Id

JOHN DEERE 50G 1FF050GXPMH294003

Component

Hydraulic System

Fluid

JOHN DEERE HYDRAU (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0199513	JR0181789	JR0162813
Sample Date		Client Info		13 Feb 2024	31 Jul 2023	23 Feb 2023
Machine Age	hrs	Client Info		2444	1949	1441
Oil Age	hrs	Client Info		495	0	1441
Filter Age	hrs	Client Info		0	0	495
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184	>50	19	13	15
Iron	ppm	ASTM D5185m	>32	6	13	8
Chromium	ppm	ASTM D5185m	>9	<1	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	<1	<1
Lead	ppm	ASTM D5185m	>28	0	<1	0
Copper	ppm	ASTM D5185m	>50	2	5	6
Tin	ppm	ASTM D5185m	>5	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

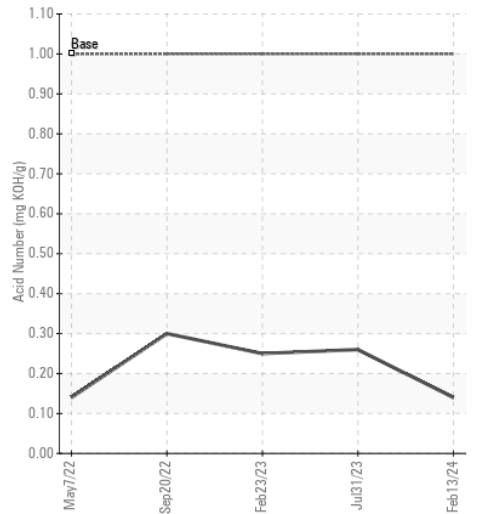
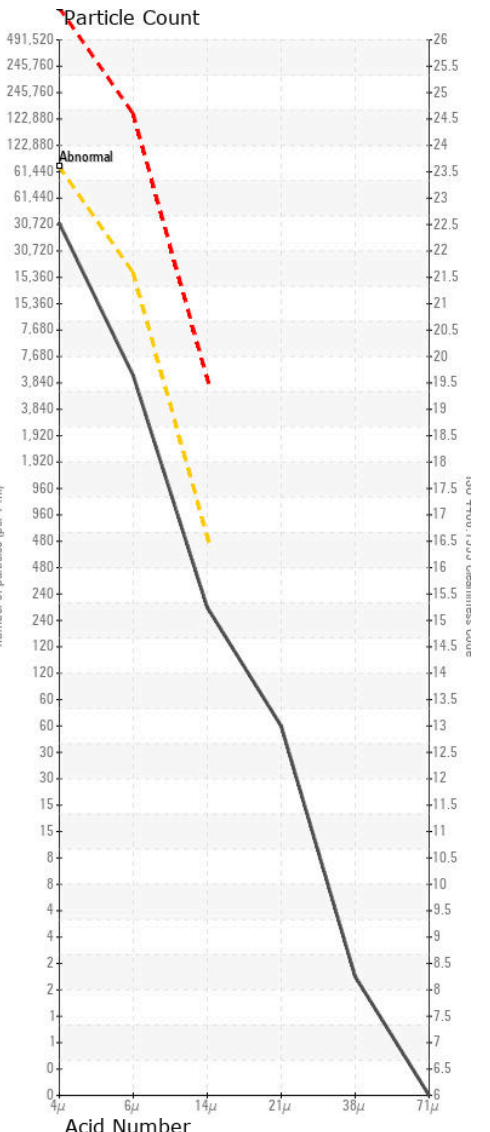
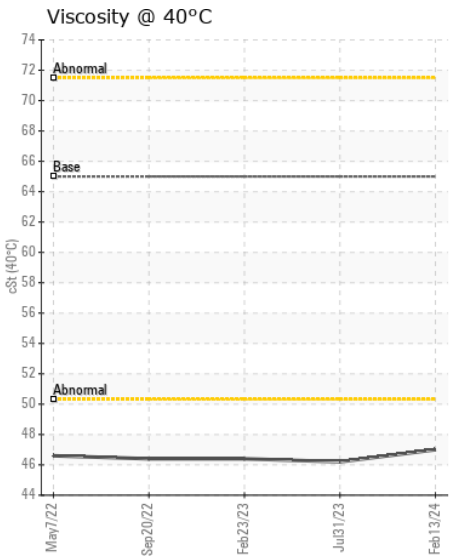
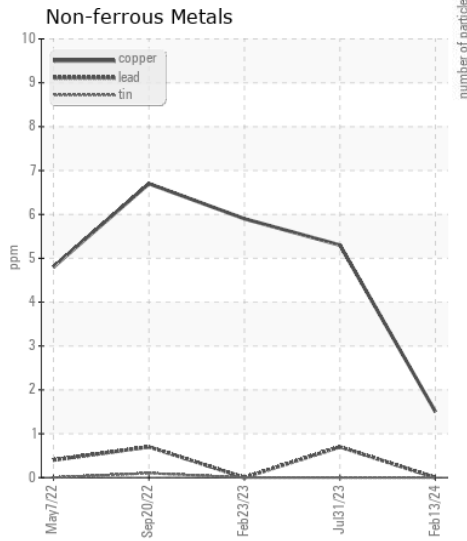
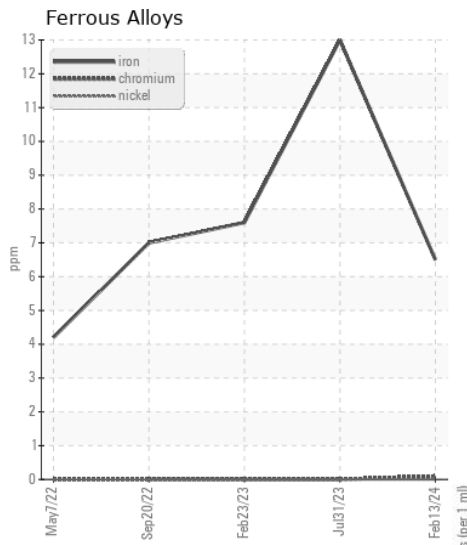
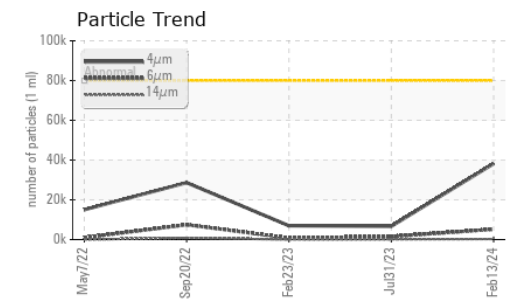
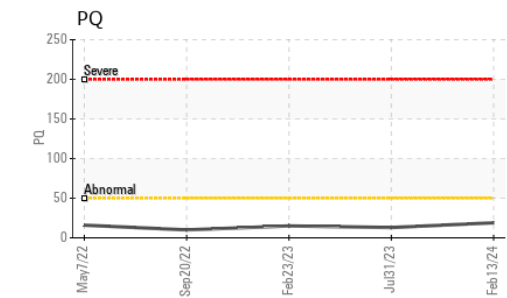
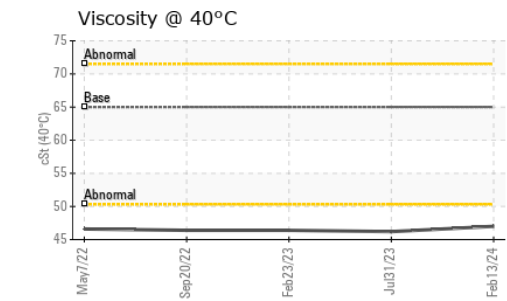
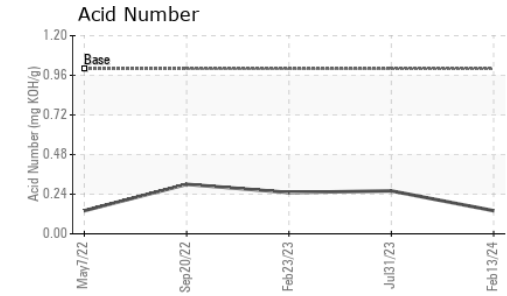
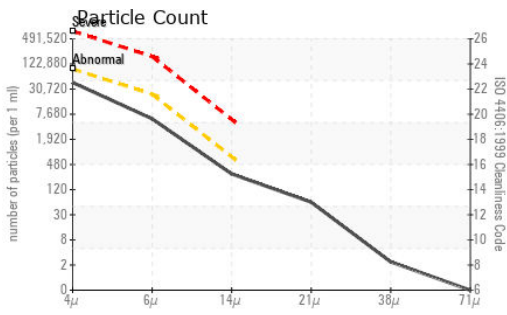
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>11	1	3	2
Potassium	ppm	ASTM D5185m	>20	<1	1	0
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	38216	6664	6961
Particles >6µm		ASTM D7647	>20000	5201	1523	790
Particles >14µm		ASTM D7647	>640	251	101	21
Particles >21µm		ASTM D7647	>160	53	20	4
Particles >38µm		ASTM D7647	>40	2	1	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	22/20/15	20/18/14	20/17/12
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	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		2	5	6
Calcium	ppm	ASTM D5185m	87	37	111	112
Phosphorus	ppm	ASTM D5185m	727	451	487	465
Zinc	ppm	ASTM D5185m	900	47	▲ 90	80
Sulfur	ppm	ASTM D5185m	1500	242	580	200
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.14	0.26	0.25
Visc @ 40°C	cSt	ASTM D445	65	47.0	46.2	46.4



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0199513 **Received** : 14 Feb 2024
Lab Number : 06089511 **Tested** : 15 Feb 2024
Unique Number : 10876956 **Diagnosed** : 16 Feb 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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)