



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[05W46987]

Machine Id
JOHN DEERE 350G 1FF350GXHMF815258

Component
Hydraulic System

Fluid
HITACHI HYDRAULIC SUPER EX 46HN (50 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0217910	JR0199042	JR0183989
Sample Date		Client Info		22 May 2024	29 Dec 2023	11 Sep 2023
Machine Age	hrs	Client Info		3457	2941	2438
Oil Age	hrs	Client Info		3457	2941	2438
Filter Age	hrs	Client Info		500	0	472
Oil Changed		Client Info		Not Chngd	N/A	Not Chngd
Filter Changed		Client Info		Not Chngd	N/A	Not Chngd
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	21	13	11
Iron	ppm	ASTM D5185m	>32	8	4	6
Chromium	ppm	ASTM D5185m	>9	0	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>9	<1	0	0
Lead	ppm	ASTM D5185m	>28	0	0	0
Copper	ppm	ASTM D5185m	>50	3	5	5
Tin	ppm	ASTM D5185m	>5	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

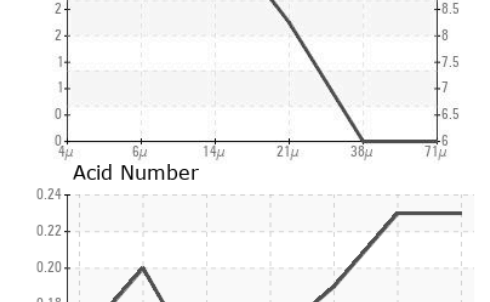
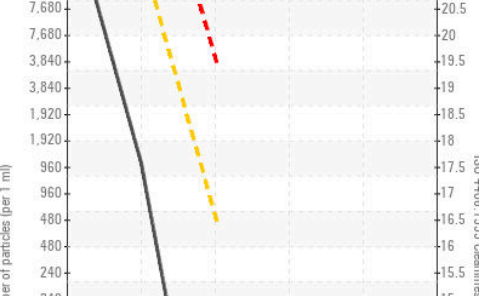
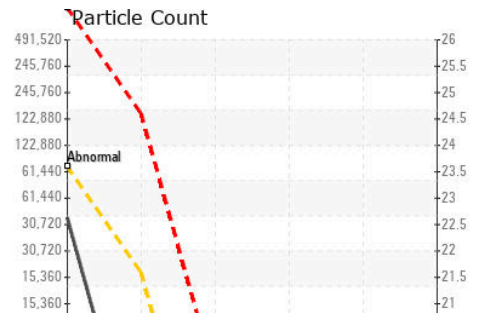
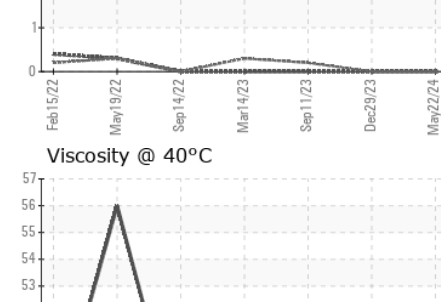
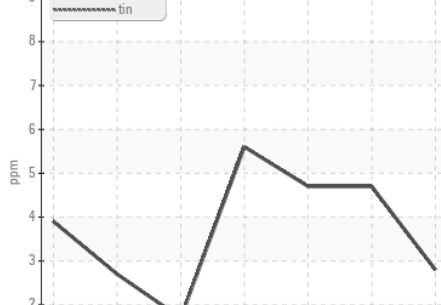
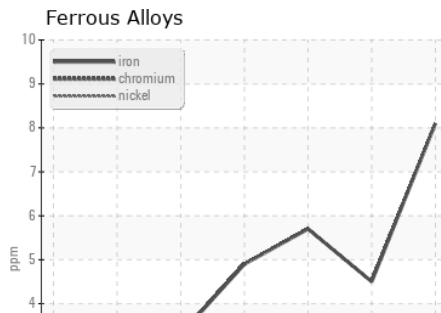
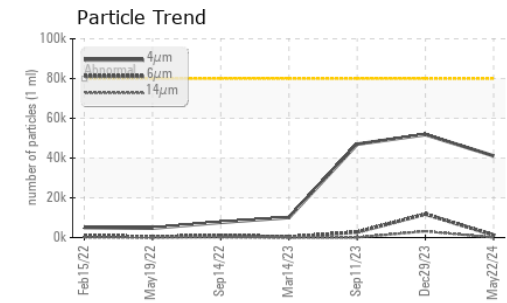
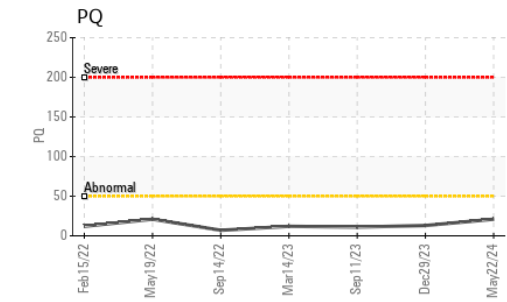
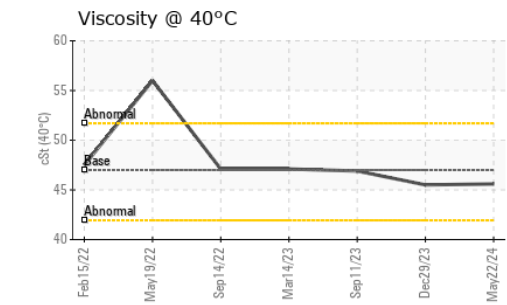
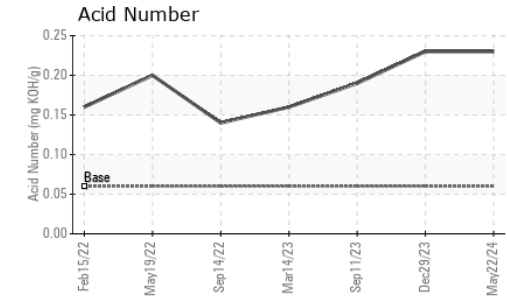
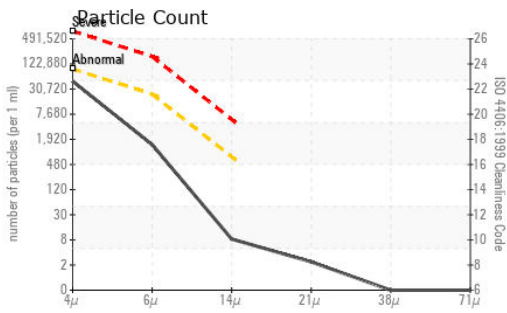
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>11	2	<1	1
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	41085	▲ 51822	46997
Particles >6µm		ASTM D7647	>20000	1256	▲ 11808	2734
Particles >14µm		ASTM D7647	>640	7	▲ 3189	21
Particles >21µm		ASTM D7647	>160	2	▲ 1344	5
Particles >38µm		ASTM D7647	>40	0	▲ 84	0
Particles >71µm		ASTM D7647	>10	0	3	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	23/17/10	▲ 23/21/19	23/19/12
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	<1
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		<1	0	0
Calcium	ppm	ASTM D5185m		14	9	<1
Phosphorus	ppm	ASTM D5185m	827	476	486	513
Zinc	ppm	ASTM D5185m	0	37	34	21
Sulfur	ppm	ASTM D5185m	13	211	144	176
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.23	0.23	0.19
Visc @ 40°C	cSt	ASTM D445	47	45.6	45.5	46.9



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0217910 **Received** : 24 May 2024
Lab Number : 06190954 **Tested** : 29 May 2024
Unique Number : 11047706 **Diagnosed** : 29 May 2024 - Wes Davis
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)