



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[46517]

Machine Id

JOHN DEERE 350G 1FF350GXHMF815079

Component

Hydraulic System

Fluid

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

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0214568	JR0199339	JR0192270
Sample Date		Client Info		09 May 2024	03 Jan 2024	31 Oct 2023
Machine Age	hrs	Client Info		4478	4080	3502
Oil Age	hrs	Client Info		398	4080	3502
Filter Age	hrs	Client Info		0	0	3502
Oil Changed		Client Info		Not Chngd	Changed	Not Chngd
Filter Changed		Client Info		Not Chngd	Not Chngd	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	15	19	11
Iron	ppm	ASTM D5185m	>32	7	5	7
Chromium	ppm	ASTM D5185m	>9	<1	<1	0
Nickel	ppm	ASTM D5185m	>5	0	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	5	<1
Lead	ppm	ASTM D5185m	>28	0	<1	<1
Copper	ppm	ASTM D5185m	>50	2	2	2
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

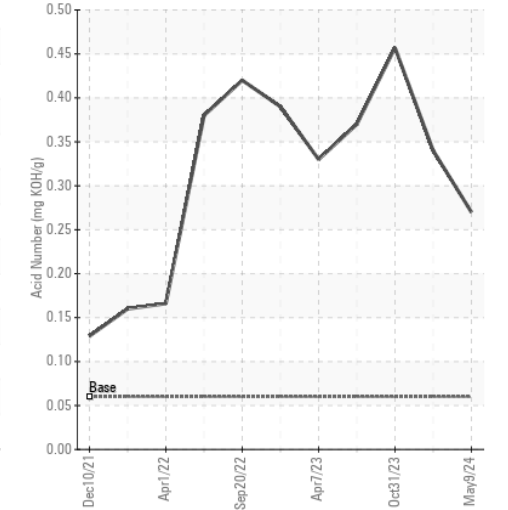
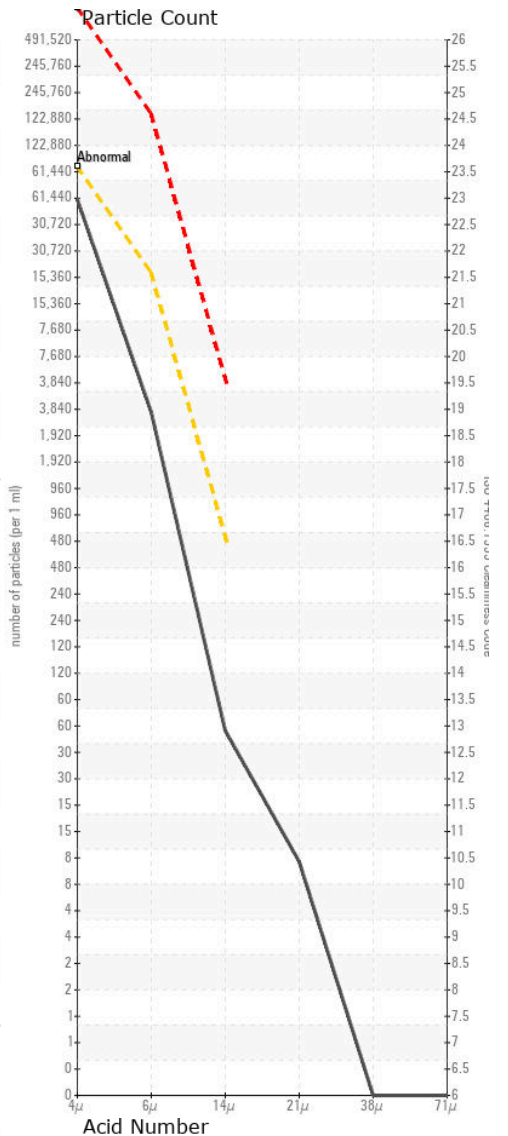
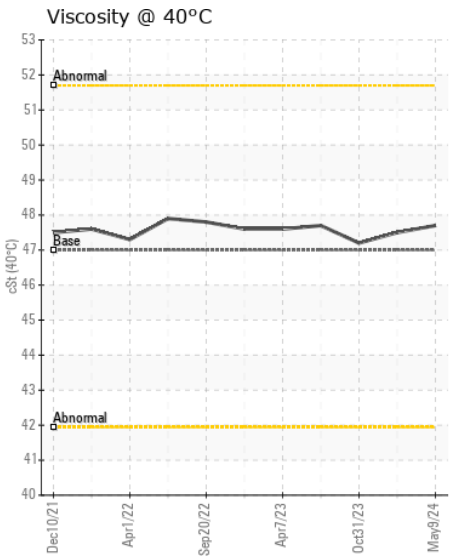
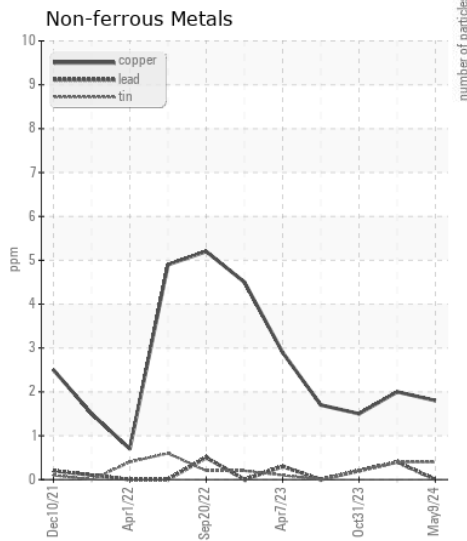
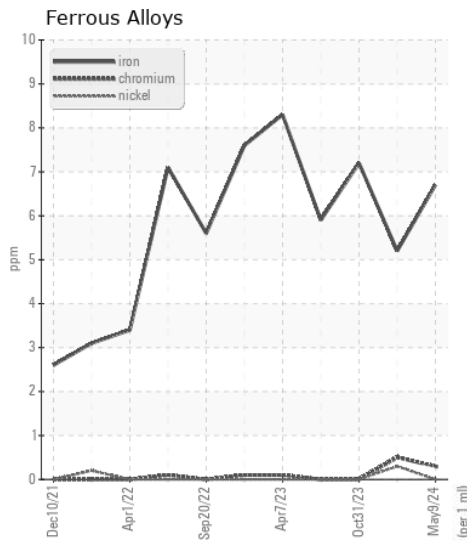
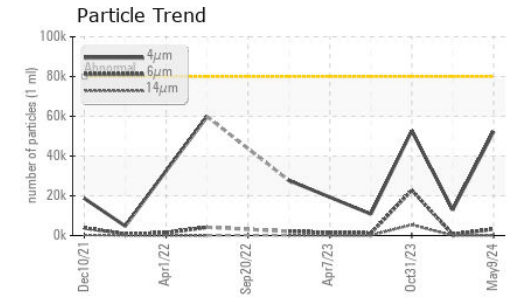
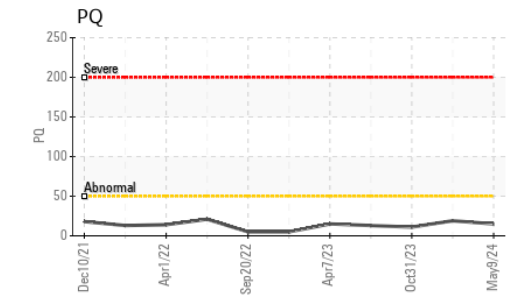
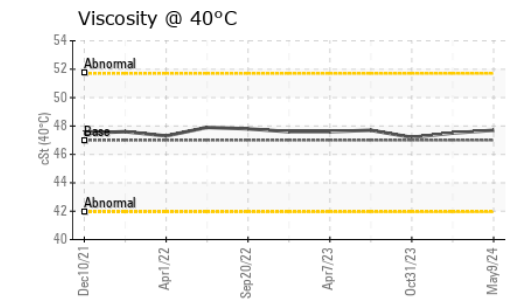
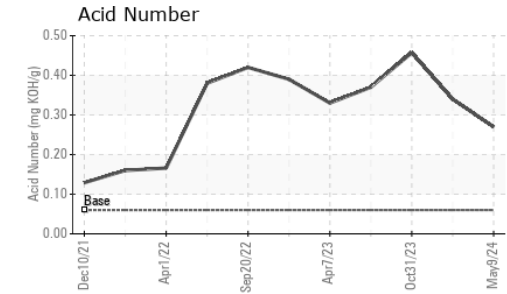
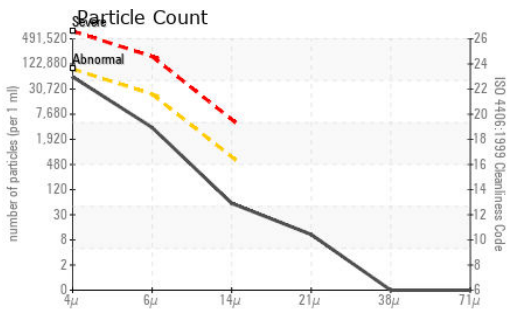
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>11	2	2	3
Potassium	ppm	ASTM D5185m	>20	1	5	0
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	52332	12956	52678
Particles >6µm		ASTM D7647	>20000	3222	600	▲ 22828
Particles >14µm		ASTM D7647	>640	50	28	▲ 5387
Particles >21µm		ASTM D7647	>160	9	10	▲ 1052
Particles >38µm		ASTM D7647	>40	0	0	19
Particles >71µm		ASTM D7647	>10	0	0	2
Oil Cleanliness		ISO 4406 (c)	>23/21/16	23/19/13	21/16/12	▲ 23/22/20
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	10	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	7	0
Molybdenum	ppm	ASTM D5185m		<1	<1	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		1	2	2
Calcium	ppm	ASTM D5185m		59	178	100
Phosphorus	ppm	ASTM D5185m	827	609	196	490
Zinc	ppm	ASTM D5185m	0	50	▲ 127	78
Sulfur	ppm	ASTM D5185m	13	114	351	236
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.27	0.34	0.457
Visc @ 40°C	cSt	ASTM D445	47	47.7	47.5	47.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0214568

Lab Number : 06175364

Unique Number : 11021417

Test Package : CONST (Additional Tests: PQ)

Received : 10 May 2024

Tested : 13 May 2024

Diagnosed : 13 May 2024 - Wes Davis

JRE - MANASSAS PARK

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US 20111

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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)