



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 350G 1FF350GXCEE809843
 Component
Hydraulic System
 Fluid
HITACHI HYDRAULIC SUPER EX 46HN (51 GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RH0001846	JR0164162	JR0034276
Sample Date		Client Info		09 Oct 2023	09 Aug 2023	21 Nov 2019
Machine Age	hrs	Client Info		9125	9124	6386
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	Not Chngd	Changed
Filter Changed		Client Info		Not Chngd	Not Chngd	Changed
Sample Status				ATTENTION	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>32	19	▲ 60	11
Chromium	ppm	ASTM D5185m	>9	2	7	7
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>9	3	▲ 13	5
Lead	ppm	ASTM D5185m	>28	0	0	<1
Copper	ppm	ASTM D5185m	>50	2	6	6
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

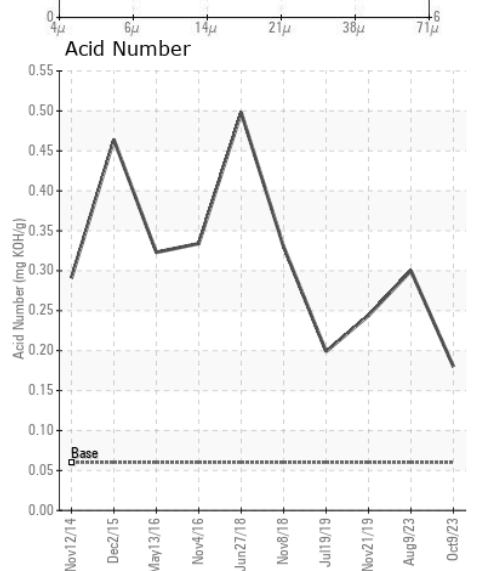
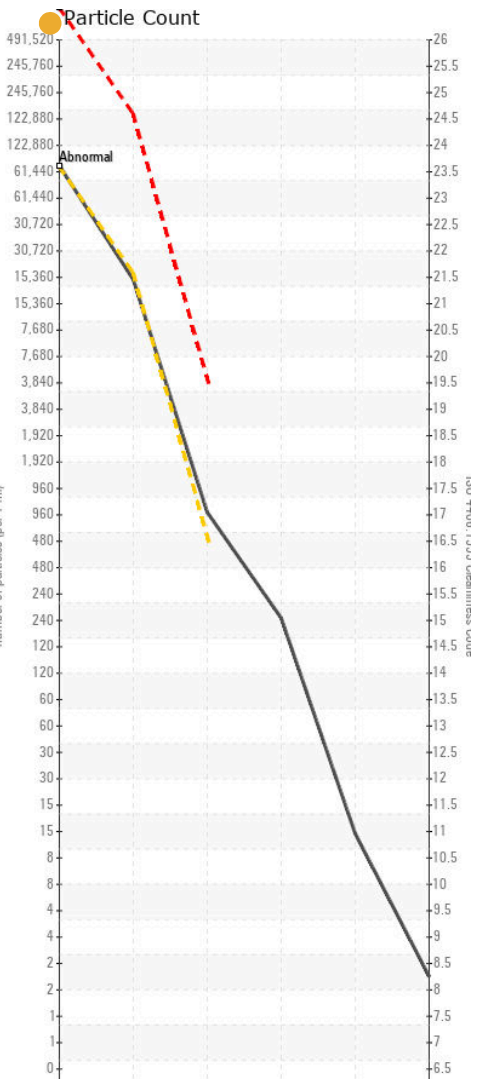
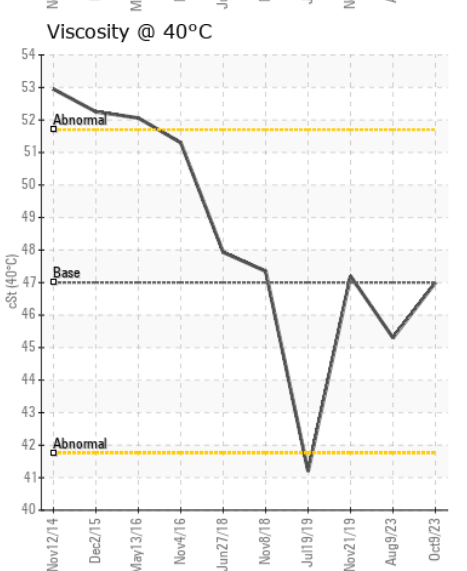
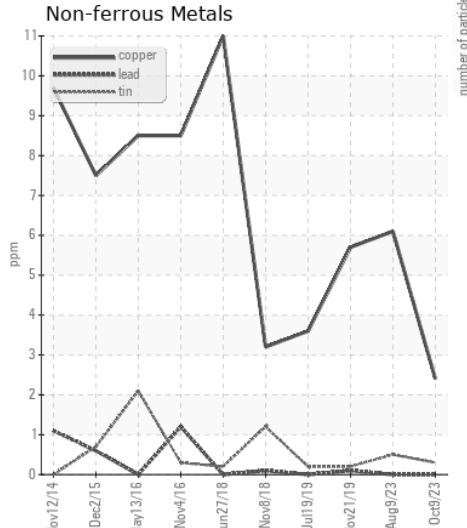
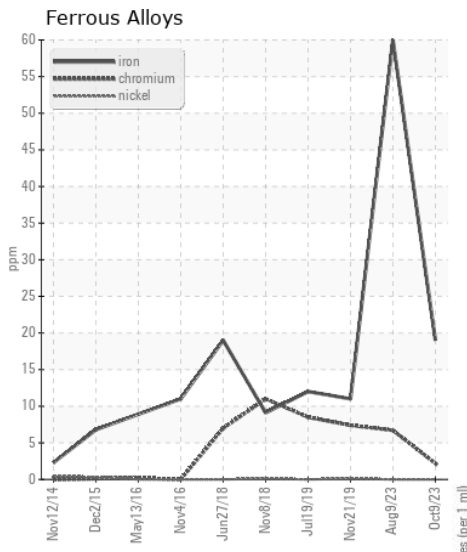
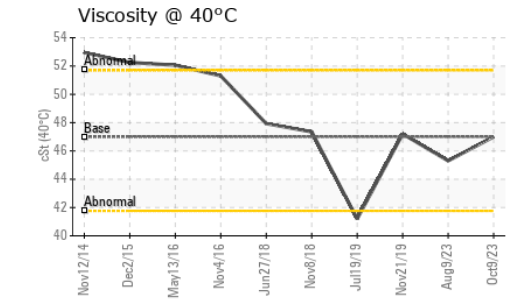
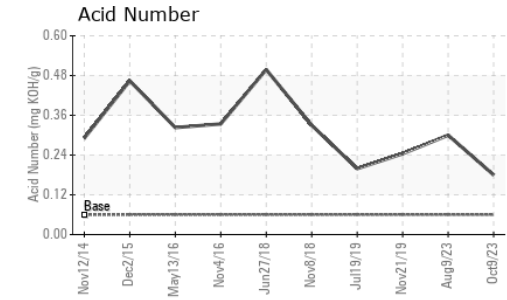
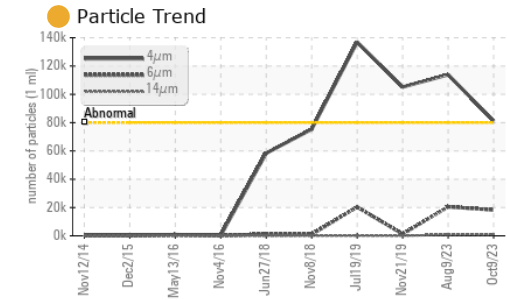
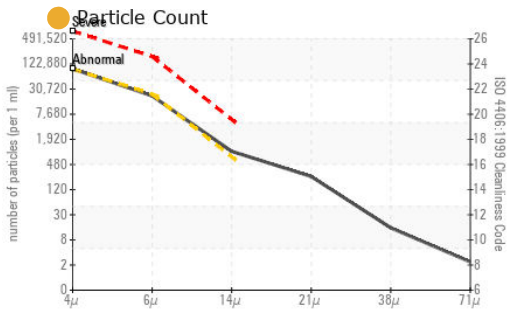
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>11	4	10	6
Potassium	ppm	ASTM D5185m	>20	0	1	<1
Water		WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	81218	● 113856	▲ 105149
Particles >6µm		ASTM D7647	>20000	18290	● 20503	1223
Particles >14µm		ASTM D7647	>640	870	● 791	34
Particles >21µm		ASTM D7647	>160	218	203	18
Particles >38µm		ASTM D7647	>40	13	9	1
Particles >71µm		ASTM D7647	>10	2	1	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	24/21/17	● 24/22/17	▲ 24/17/12
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	1	1	0
Boron	ppm	ASTM D5185m		0	0	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		2	1	7
Calcium	ppm	ASTM D5185m		11	26	67
Phosphorus	ppm	ASTM D5185m	827	547	469	553
Zinc	ppm	ASTM D5185m	0	42	114	107
Sulfur	ppm	ASTM D5185m	13	170	475	317
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.18	0.30	0.244
Visc @ 40°C	cSt	ASTM D445	47	47.0	45.3	47.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RH0001846
Lab Number : 05975635
Unique Number : 10687585
Test Package : MOB 2

Received : 11 Oct 2023
Tested : 12 Oct 2023
Diagnosed : 12 Oct 2023 - Wes Davis

JRE - NEW BERN
 3816 MARTIN LUTHER KING BLVD
 NEW BERN, NC
 US 28562
 Contact: NEW BERN SHOP
 nick.etheridge@jamesriverequipment.com; canastasio@wearchekusa.com

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)

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