



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[16W14501]

Machine Id

JOHN DEERE 350P 1FF350PAHNF000460

Component

Hydraulic System

Fluid

HITACHI HYDRAULIC SUPER EX 46HN (51 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: 16W14501)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0185368	JR0173409	---
Sample Date		Client Info		20 Sep 2023	10 Jul 2023	---
Machine Age	hrs	Client Info		1055	550	---
Oil Age	hrs	Client Info		1055	550	---
Filter Age	hrs	Client Info		1055	550	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Changed	Not Changd	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

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

CONTAMINATION

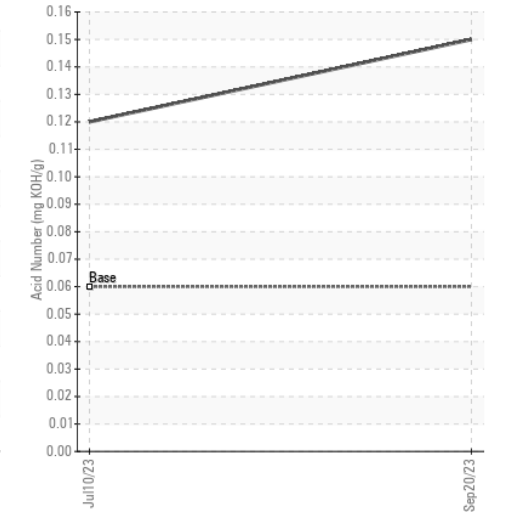
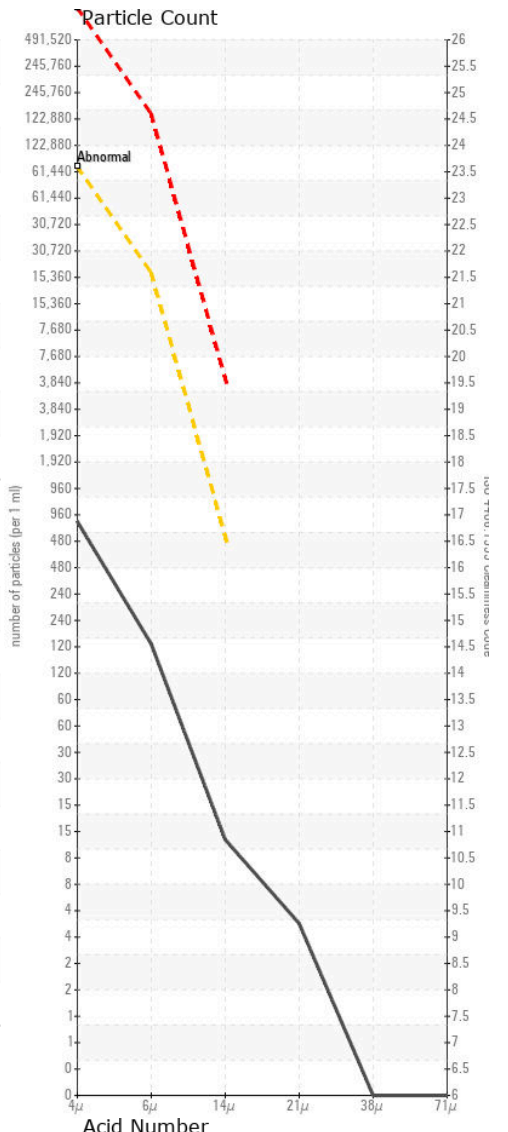
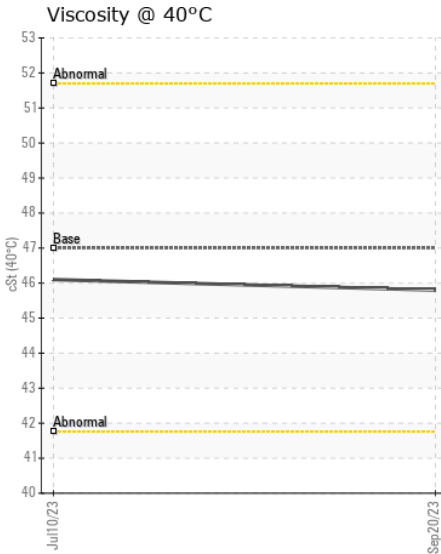
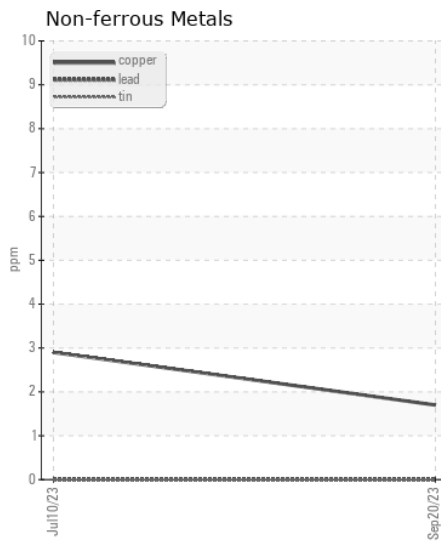
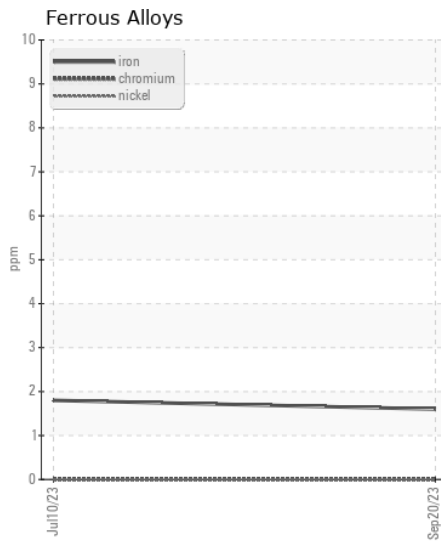
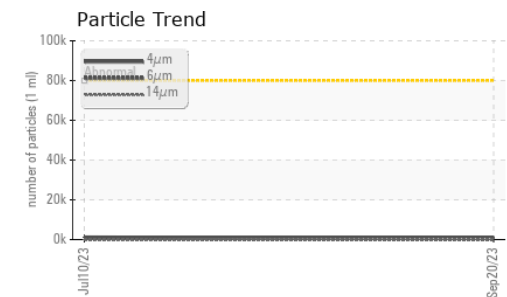
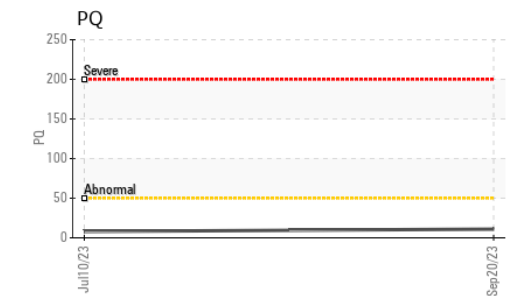
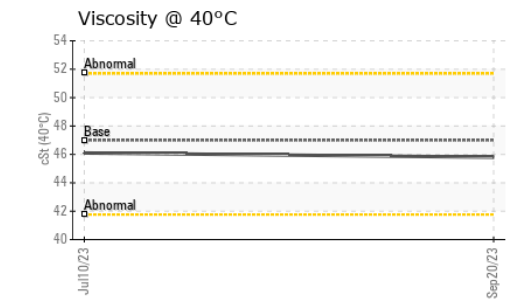
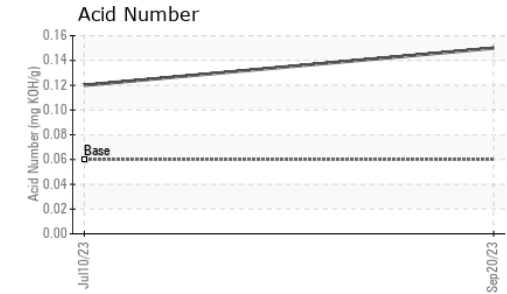
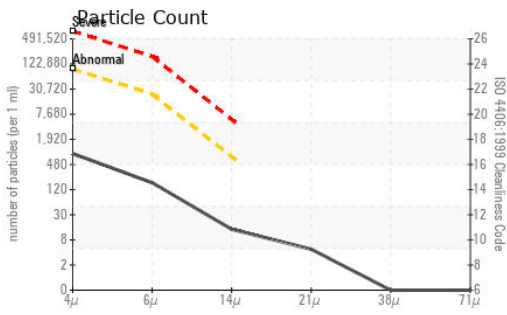
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>11	<1	<1	---
Potassium	ppm	ASTM D5185m	>20	4	3	---
Water		WC Method	>0.075	NEG	NEG	---
Particles >4µm		ASTM D7647	>80000	772	1210	---
Particles >6µm		ASTM D7647	>20000	155	219	---
Particles >14µm		ASTM D7647	>640	12	16	---
Particles >21µm		ASTM D7647	>160	4	3	---
Particles >38µm		ASTM D7647	>40	0	0	---
Particles >71µm		ASTM D7647	>10	0	0	---
Oil Cleanliness		ISO 4406 (c)	>23/21/16	17/14/11	17/15/11	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.075	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	2	1	---
Boron	ppm	ASTM D5185m		0	0	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		0	0	---
Manganese	ppm	ASTM D5185m		0	0	---
Magnesium	ppm	ASTM D5185m		2	3	---
Calcium	ppm	ASTM D5185m		0	1	---
Phosphorus	ppm	ASTM D5185m	827	551	570	---
Zinc	ppm	ASTM D5185m	0	16	26	---
Sulfur	ppm	ASTM D5185m	13	81	109	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.15	0.12	---
Visc @ 40°C	cSt	ASTM D445	47	45.8	46.1	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0185368 **Received** : 22 Sep 2023
Lab Number : 05958569 **Tested** : 25 Sep 2023
Unique Number : 10659782 **Diagnosed** : 25 Sep 2023 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - CASTLE HAYNE
 113 CROWATAN ROAD
 CASTLE HAYNE, NC
 US 28429-5819

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: WILMINGTON SHOP
 todd.simmons@jameswvarequipment.com; canastasio@wearcheck.com; canastasio@we

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (910)675-9211

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: