



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

[TIM MORTON]

Machine Id

JOHN DEERE 350P 1FF350PACNF000297

Component

Hydraulic System

Fluid

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

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0185848</b>	JR0201141	---
Sample Date		Client Info		<b>07 May 2024</b>	03 Mar 2024	---
Machine Age	hrs	Client Info		<b>1910</b>	1500	---
Oil Age	hrs	Client Info		<b>459</b>	1500	---
Filter Age	hrs	Client Info		<b>459</b>	1500	---
Oil Changed		Client Info		<b>Not Chngd</b>	N/A	---
Filter Changed		Client Info		<b>Not Chngd</b>	N/A	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

**WEAR**

All component wear rates are normal.

PQ		ASTM D8184	>50	<b>14</b>	138	---
Iron	ppm	ASTM D5185m	>32	<b>0</b>	24	---
Chromium	ppm	ASTM D5185m	>9	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>9	<b>0</b>	<1	---
Lead	ppm	ASTM D5185m	>28	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>50	<b>0</b>	2	---
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>LIGHT</b>	▲ HEAVY	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

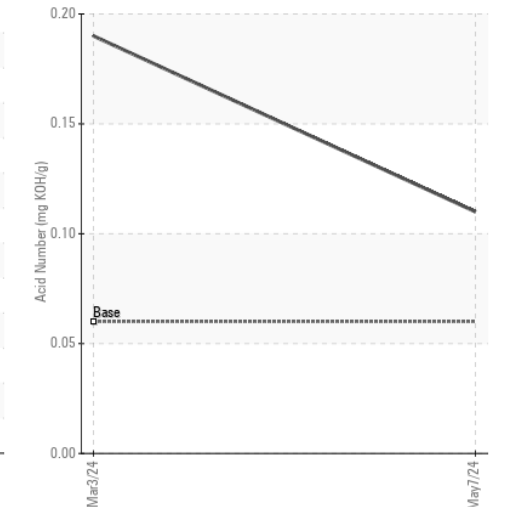
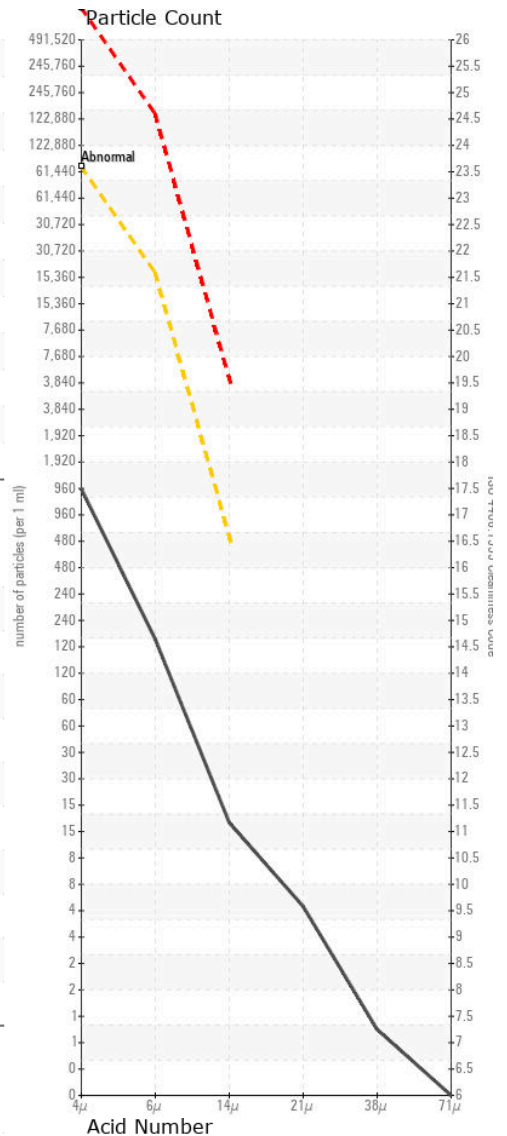
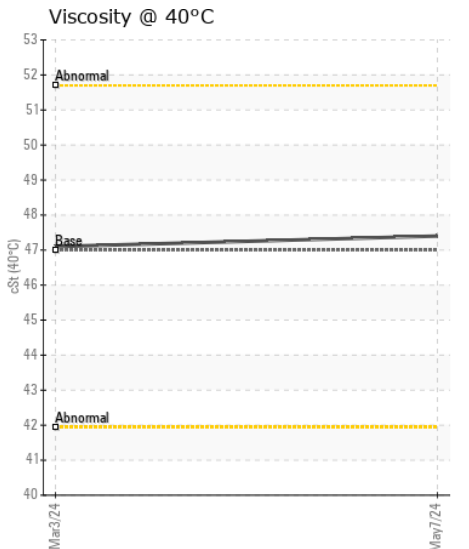
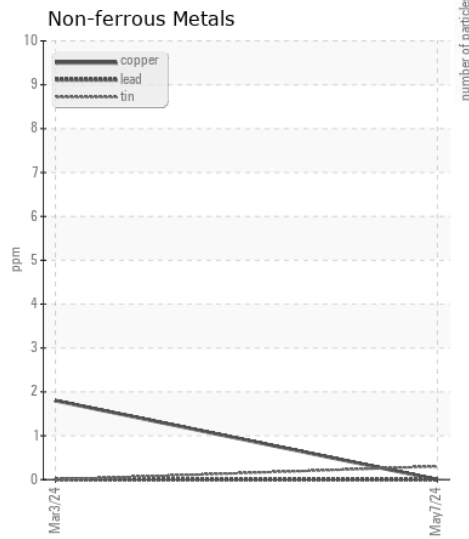
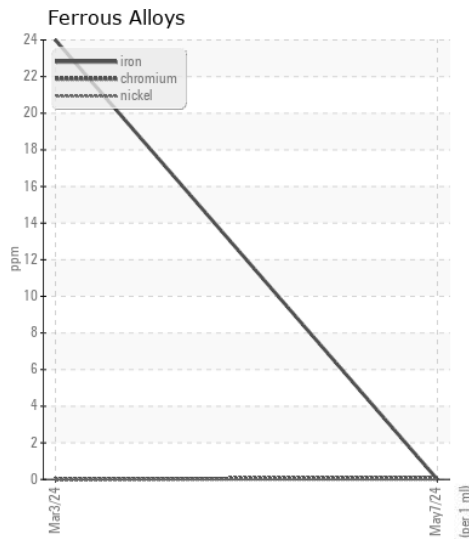
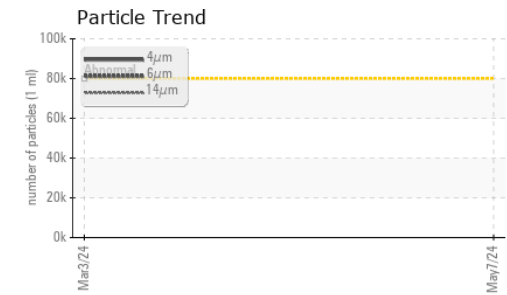
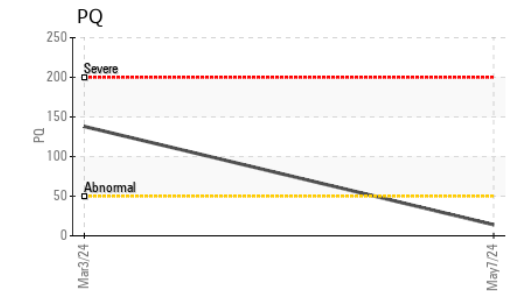
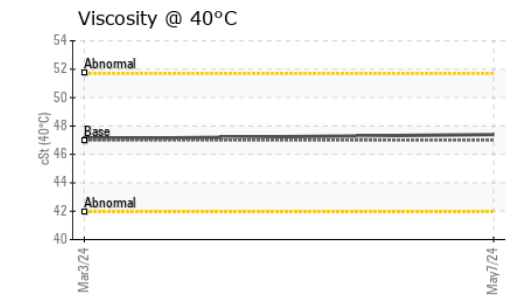
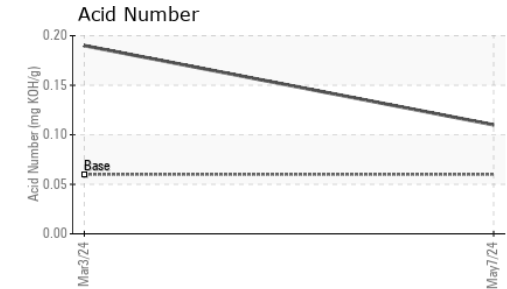
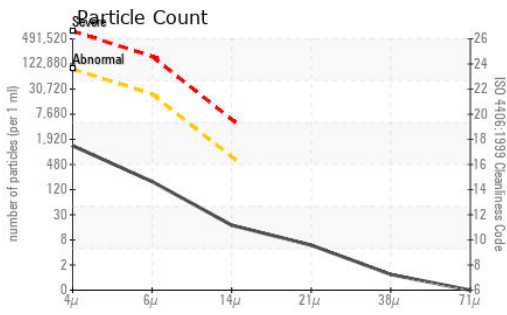
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>11	<b>1</b>	2	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Water		WC Method	>0.075	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647	>80000	<b>1183</b>	---	---
Particles >6µm		ASTM D7647	>20000	<b>165</b>	---	---
Particles >14µm		ASTM D7647	>640	<b>15</b>	---	---
Particles >21µm		ASTM D7647	>160	<b>5</b>	---	---
Particles >38µm		ASTM D7647	>40	<b>1</b>	---	---
Particles >71µm		ASTM D7647	>10	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>23/21/16	<b>17/15/11</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	▲ HEAVY	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.075	<b>NEG</b>	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	<b>0</b>	0	---
Boron	ppm	ASTM D5185m		<b>0</b>	0	---
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	---
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>3</b>	5	---
Calcium	ppm	ASTM D5185m		<b>5</b>	48	---
Phosphorus	ppm	ASTM D5185m	827	<b>657</b>	505	---
Zinc	ppm	ASTM D5185m	0	<b>14</b>	27	---
Sulfur	ppm	ASTM D5185m	13	<b>0</b>	357	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	<b>0.11</b>	0.19	---
Visc @ 40°C	cSt	ASTM D445	47	<b>47.4</b>	47.1	---



Certificate L2367

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

Sample No. : JR0185848

Lab Number : 06178616

Unique Number : 11029942

Test Package : CONST ( Additional Tests: PQ )

Received : 14 May 2024

Tested : 15 May 2024

Diagnosed : 16 May 2024 - Don Baldrige

**JRE - NEW BERN**  
3816 MARTIN LUTHER KING BLVD  
NEW BERN, NC  
US 28562

Contact: NEW BERN SHOP

nick.etherdridge@jamesriverequipment.com; canastasio@wearcheckusa.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)

T:

F: