



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[16W16442]

Machine Id

JOHN DEERE 135 P 1FF135PAVPF000872

Component

Hydraulic System

Fluid

JOHN DEERE ZINC-FREE HYDRAULIC OIL 46 (16 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: 16W16442)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0217250	---	---
Sample Date		Client Info		14 Jun 2024	---	---
Machine Age	hrs	Client Info		785	---	---
Oil Age	hrs	Client Info		785	---	---
Filter Age	hrs	Client Info		785	---	---
Oil Changed		Client Info		Not Chngd	---	---
Filter Changed		Client Info		Not Chngd	---	---
Sample Status				NORMAL	---	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	22	---	---
Iron	ppm	ASTM D5185m	>32	5	---	---
Chromium	ppm	ASTM D5185m	>9	<1	---	---
Nickel	ppm	ASTM D5185m	>5	<1	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>9	2	---	---
Lead	ppm	ASTM D5185m	>28	<1	---	---
Copper	ppm	ASTM D5185m	>50	2	---	---
Tin	ppm	ASTM D5185m	>5	<1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

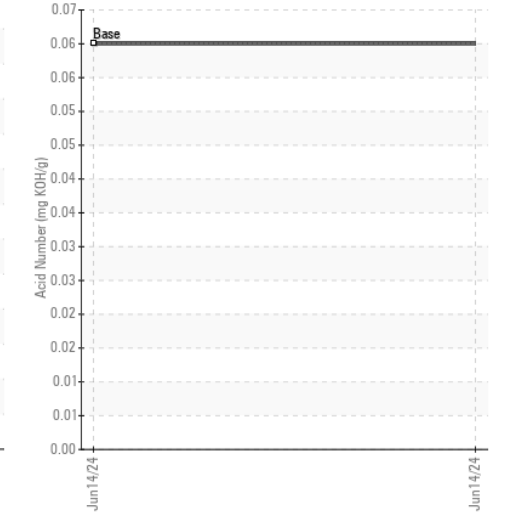
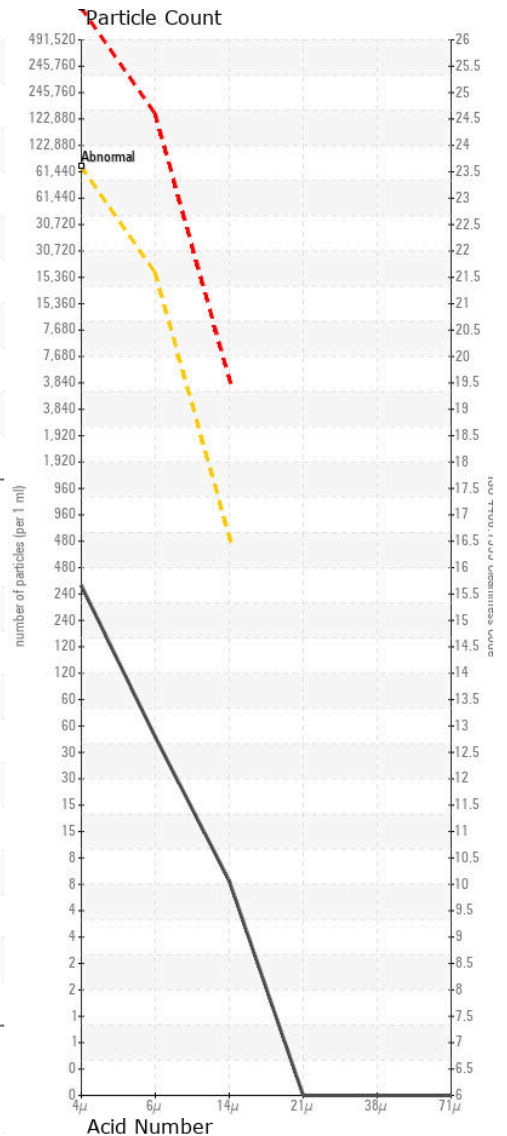
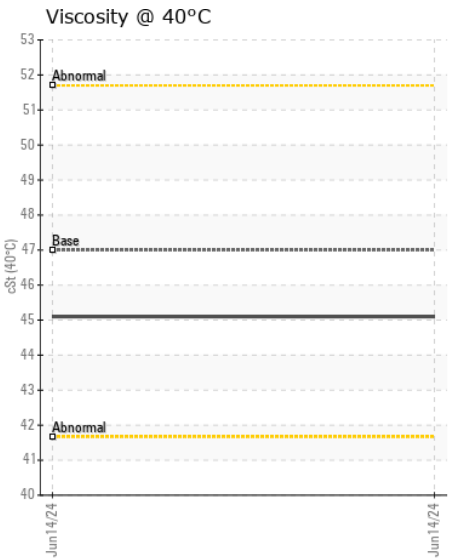
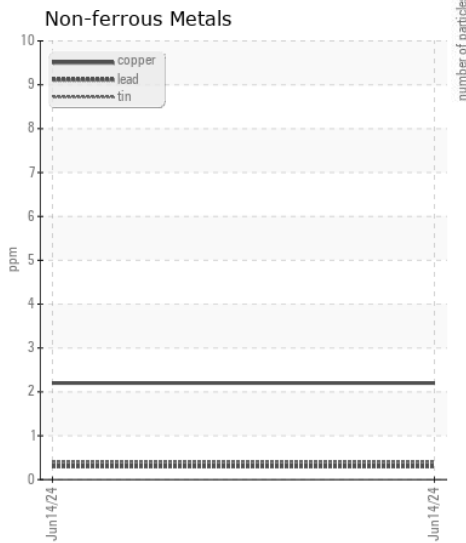
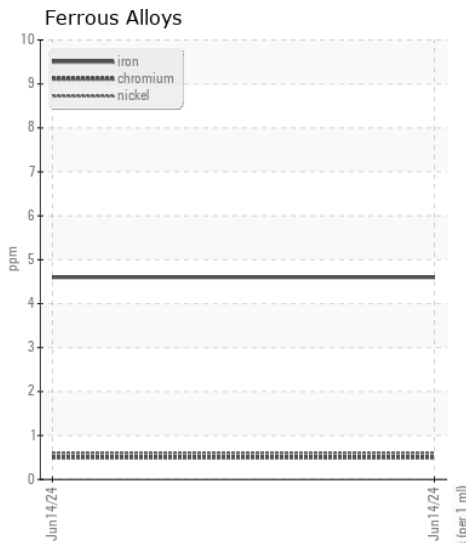
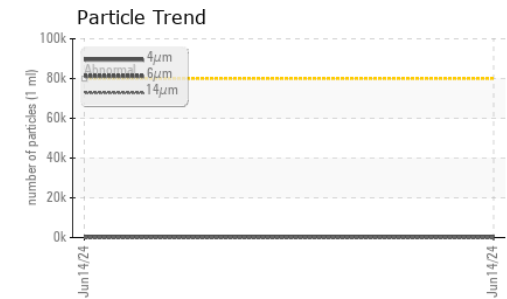
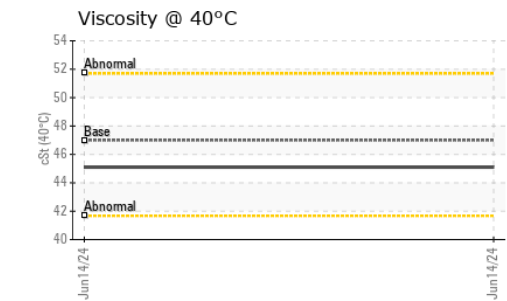
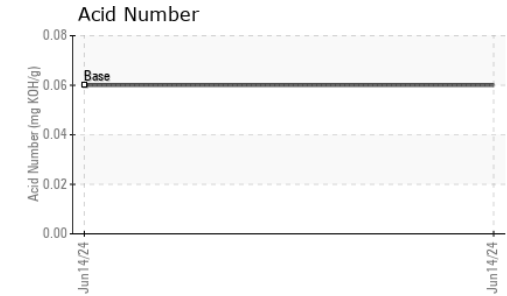
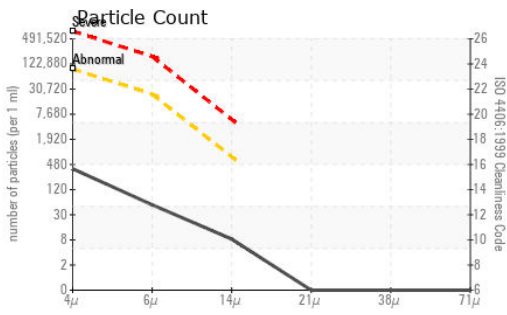
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>11	3	---	---
Potassium	ppm	ASTM D5185m	>20	2	---	---
Water		WC Method	>0.075	NEG	---	---
Particles >4µm		ASTM D7647	>80000	334	---	---
Particles >6µm		ASTM D7647	>20000	46	---	---
Particles >14µm		ASTM D7647	>640	7	---	---
Particles >21µm		ASTM D7647	>160	0	---	---
Particles >38µm		ASTM D7647	>40	0	---	---
Particles >71µm		ASTM D7647	>10	0	---	---
Oil Cleanliness		ISO 4406 (c)	>23/21/16	16/13/10	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.075	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	---	---
Boron	ppm	ASTM D5185m		<1	---	---
Barium	ppm	ASTM D5185m		<1	---	---
Molybdenum	ppm	ASTM D5185m		2	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		4	---	---
Calcium	ppm	ASTM D5185m		4	---	---
Phosphorus	ppm	ASTM D5185m		600	---	---
Zinc	ppm	ASTM D5185m		49	---	---
Sulfur	ppm	ASTM D5185m		153	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.06	---	---
Visc @ 40°C	cSt	ASTM D445	47	45.1	---	---



Certificate L2367

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

Sample No. : JR0217250

Lab Number : 06211508

Unique Number : 11084372

Test Package : CONST (Additional Tests: PQ)

Received : 17 Jun 2024

Tested : 18 Jun 2024

Diagnosed : 18 Jun 2024 - Don Baldrige

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)

JRE - CASTLE HAYNE

113 CROWATAN ROAD

CASTLE HAYNE, NC

US 28429-5819

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