



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
Store 4 - Fairmont [RO# 150427]
Machine Id
JOHN DEERE 550H T0550HX924241
Component
Hydraulic System
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (9 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0048283	---	---
Sample Date		Client Info		16 May 2024	---	---
Machine Age	hrs	Client Info		3209	---	---
Oil Age	hrs	Client Info		3209	---	---
Filter Age	hrs	Client Info		1000	---	---
Oil Changed		Client Info		Not Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

WEAR

The iron level is abnormal. The chromium level is abnormal.

PQ		ASTM D8184	>50	20	---	---
Iron	ppm	ASTM D5185m	>23	▲ 28	---	---
Chromium	ppm	ASTM D5185m	>9	▲ 26	---	---
Nickel	ppm	ASTM D5185m	>5	0	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>9	6	---	---
Lead	ppm	ASTM D5185m	>28	2	---	---
Copper	ppm	ASTM D5185m	>51	28	---	---
Tin	ppm	ASTM D5185m	>5	<1	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

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

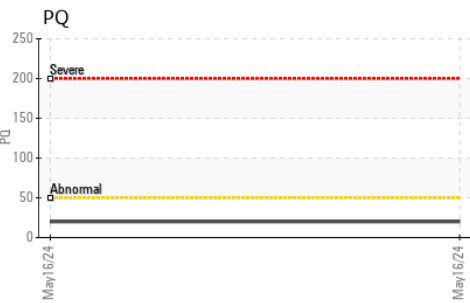
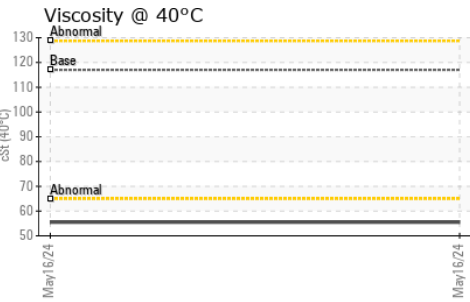
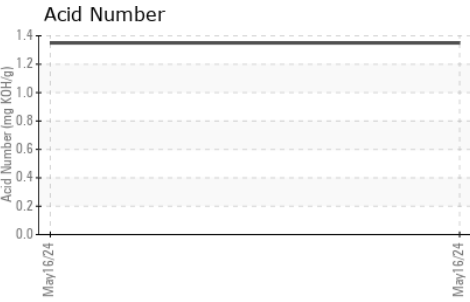
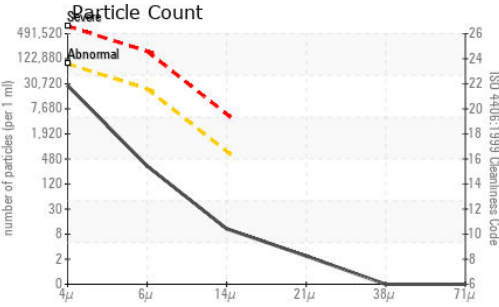
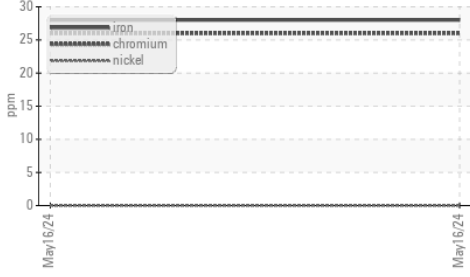
Silicon	ppm	ASTM D5185m	>31	24	---	---
Potassium	ppm	ASTM D5185m	>20	1	---	---
Water		WC Method	>0.075	NEG	---	---
Particles >4µm		ASTM D7647	>80000	24216	---	---
Particles >6µm		ASTM D7647	>20000	285	---	---
Particles >14µm		ASTM D7647	>640	9	---	---
Particles >21µm		ASTM D7647	>160	2	---	---
Particles >38µm		ASTM D7647	>40	0	---	---
Particles >71µm		ASTM D7647	>10	0	---	---
Oil Cleanliness		ISO 4406 (c)	>23/21/16	22/15/10	---	---
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

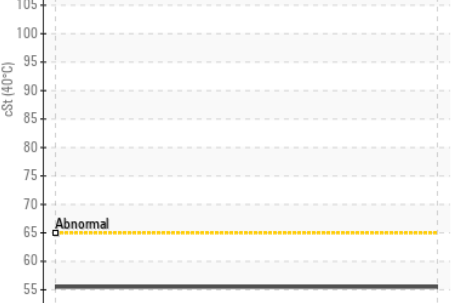
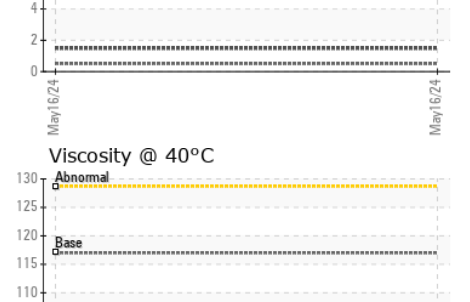
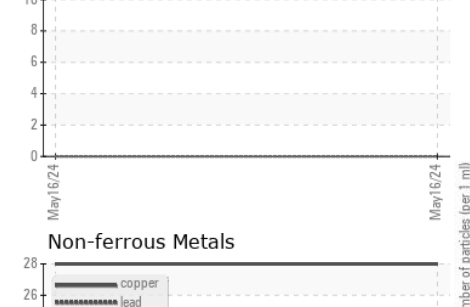
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>21	6	---	---
Boron	ppm	ASTM D5185m		54	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		3	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		154	---	---
Calcium	ppm	ASTM D5185m		2739	---	---
Phosphorus	ppm	ASTM D5185m		1115	---	---
Zinc	ppm	ASTM D5185m		1296	---	---
Sulfur	ppm	ASTM D5185m		6267	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		1.35	---	---
Visc @ 40°C	cSt	ASTM D445	117	55.5	---	---

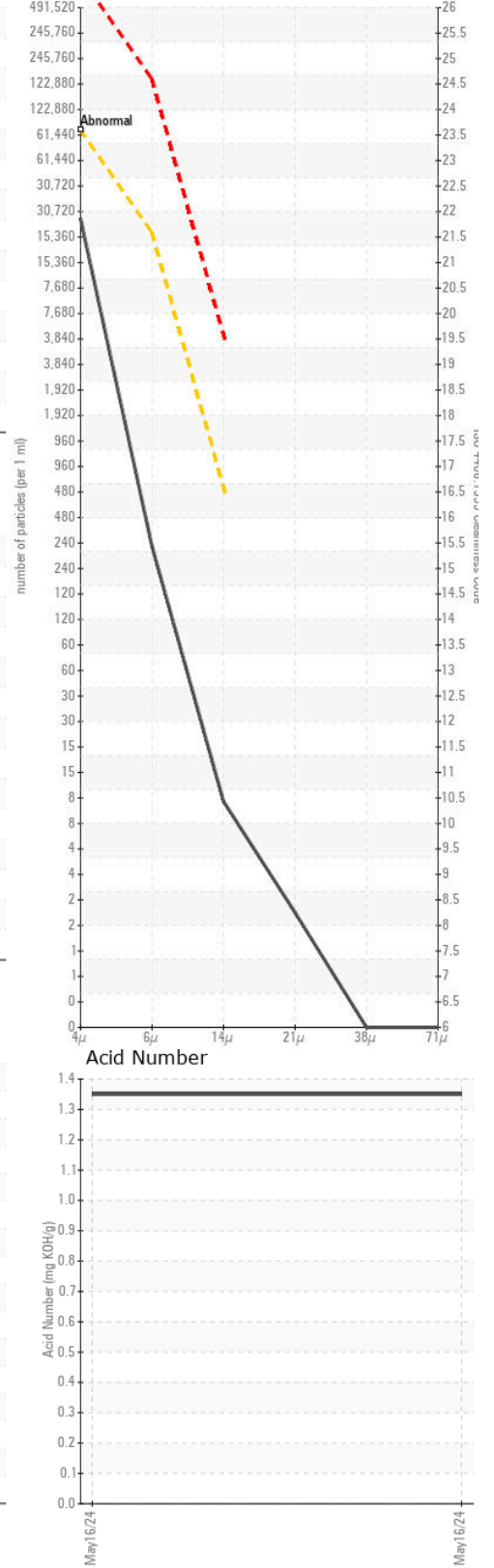
▲ Ferrous Alloys



▲ Ferrous Alloys



▲ Particle Count



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0048283 **Received** : 21 May 2024
Lab Number : **06186044** **Tested** : 22 May 2024
Unique Number : 11042796 **Diagnosed** : 23 May 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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