



OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area

RICHARD TODD

Machine Id

JOHN DEERE 9400 665322

Component

Hydraulic System

Fluid

TDH FLUID SAE 75W80 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Bearing wear is indicated.

Contamination

The amount and size of particulates present in the system are acceptable.

Fluid Condition

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC06181937	---	---
Sample Date	Client Info	22 Apr 2024	---	---
Machine Age	hrs	Client Info	0	---
Oil Age	hrs	Client Info	0	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	---

WEAR METALS

method	limit/base	current	history1	history2	
PQ	ASTM D8184	14	---	---	
Iron	ppm	ASTM D5185m	>20	▲ 20	---
Chromium	ppm	ASTM D5185m	>10	<1	---
Nickel	ppm	ASTM D5185m	>10	0	---
Titanium	ppm	ASTM D5185m		<1	---
Silver	ppm	ASTM D5185m		1	---
Aluminum	ppm	ASTM D5185m	>10	2	---
Lead	ppm	ASTM D5185m	>10	▲ 54	---
Copper	ppm	ASTM D5185m	>75	▲ 134	---
Tin	ppm	ASTM D5185m	>10	1	---
Vanadium	ppm	ASTM D5185m		<1	---
Cadmium	ppm	ASTM D5185m		<1	---

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	10	2	---
Barium	ppm	ASTM D5185m	10	0	---
Molybdenum	ppm	ASTM D5185m	10	<1	---
Manganese	ppm	ASTM D5185m		<1	---
Magnesium	ppm	ASTM D5185m	100	56	---
Calcium	ppm	ASTM D5185m	3500	3120	---
Phosphorus	ppm	ASTM D5185m	1150	1113	---
Zinc	ppm	ASTM D5185m	1150	1306	---
Sulfur	ppm	ASTM D5185m	5000	6191	---

CONTAMINANTS

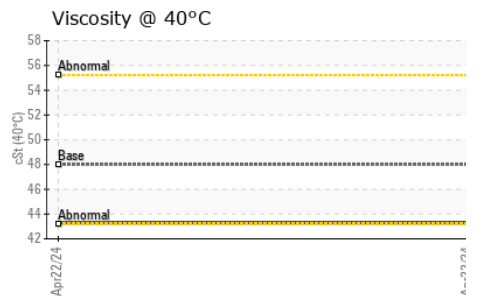
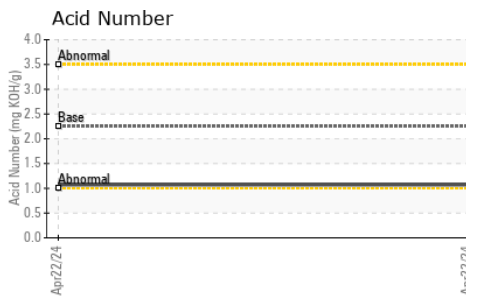
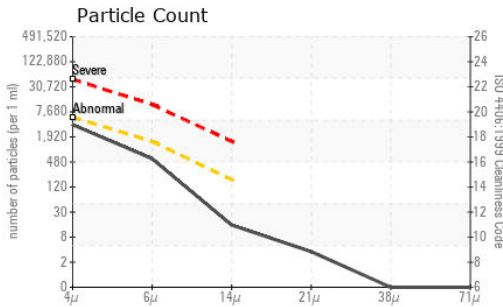
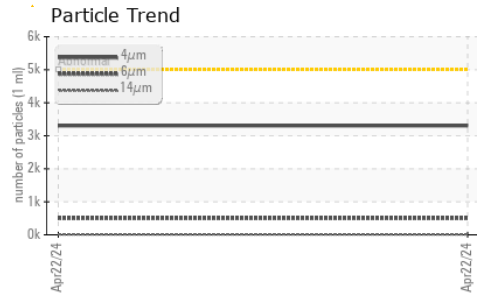
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	8	---
Sodium	ppm	ASTM D5185m		47	---
Potassium	ppm	ASTM D5185m	>20	4	---

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	3304	---
Particles >6µm	ASTM D7647	>1300	503	---
Particles >14µm	ASTM D7647	>160	13	---
Particles >21µm	ASTM D7647	>40	3	---
Particles >38µm	ASTM D7647	>10	0	---
Particles >71µm	ASTM D7647	>3	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	19/16/11	---



OIL ANALYSIS REPORT



FLUID DEGRADATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	2.25	1.07	---	---

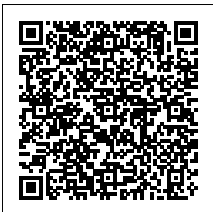
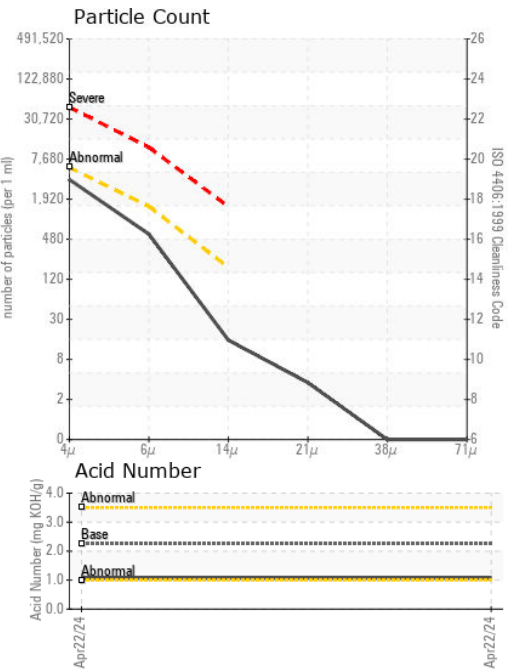
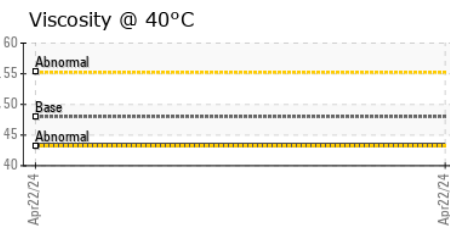
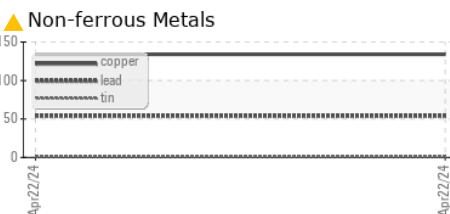
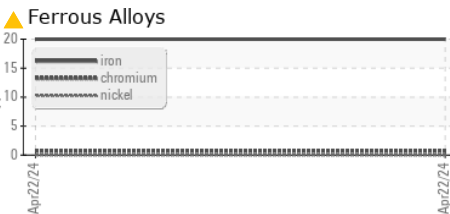
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	LIGHT	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---	---
Free Water	scalar	*Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	48	43.3	---	---

SAMPLE IMAGES

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				<i>no image</i>	<i>no image</i>
Bottom				<i>no image</i>	<i>no image</i>

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC06181937 **Received** : 16 May 2024
Lab Number : **06181937** **Tested** : 17 May 2024
Unique Number : 11033263 **Diagnosed** : 20 May 2024 - Angela Borella
Test Package : CONST (Additional Tests: PQ)

QUALITY EQUIPMENT LLC
 2783 HWY 70 BUS E
 SMITHFIELD, NC
 US 27577
 Contact: COY STANLEY
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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)