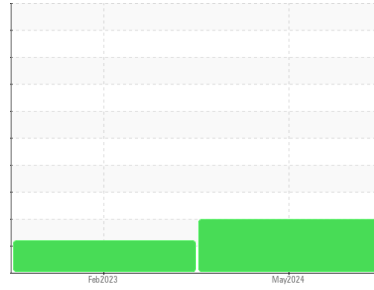




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area

[W52052 HENDERSON]

Machine Id

JOHN DEERE 331G 1T0331GMVLF371179

Component

Hydraulic System

Fluid

JOHN DEERE HYDRAU (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	JR0211645	JR0147061	---
Sample Date	Client Info	28 May 2024	28 Feb 2023	---
Machine Age	hrs	Client Info	1431	941
Oil Age	hrs	Client Info	0	941
Oil Changed	Client Info	Not Changed	Changed	---
Sample Status		ABNORMAL	ABNORMAL	---

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	22	19	---
Iron	ppm	ASTM D5185m >20	25	28
Chromium	ppm	ASTM D5185m >10	<1	<1
Nickel	ppm	ASTM D5185m >10	0	0
Titanium	ppm	ASTM D5185m	0	0
Silver	ppm	ASTM D5185m	0	0
Aluminum	ppm	ASTM D5185m >10	2	2
Lead	ppm	ASTM D5185m >10	3	0
Copper	ppm	ASTM D5185m >75	10	15
Tin	ppm	ASTM D5185m >10	0	0
Vanadium	ppm	ASTM D5185m	0	0
Cadmium	ppm	ASTM D5185m	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	3	7
Barium	ppm	ASTM D5185m	0	0
Molybdenum	ppm	ASTM D5185m	5	9
Manganese	ppm	ASTM D5185m	<1	<1
Magnesium	ppm	ASTM D5185m	20	32
Calcium	ppm	ASTM D5185m 87	187	219
Phosphorus	ppm	ASTM D5185m 727	610	537
Zinc	ppm	ASTM D5185m 900	812	711
Sulfur	ppm	ASTM D5185m 1500	1941	1790

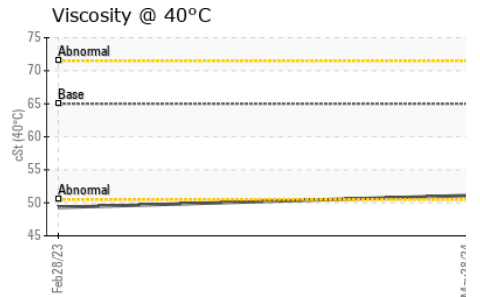
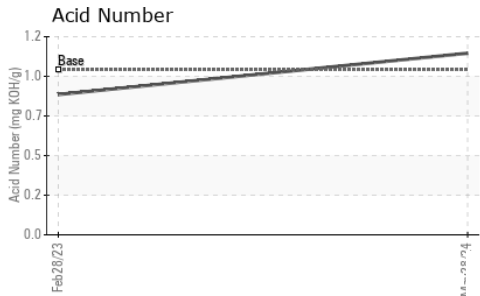
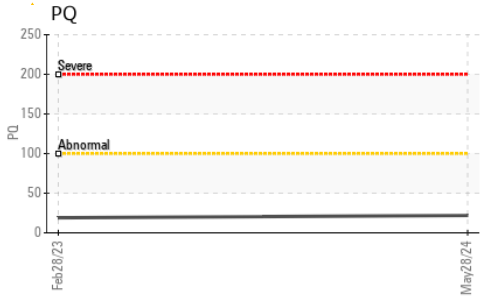
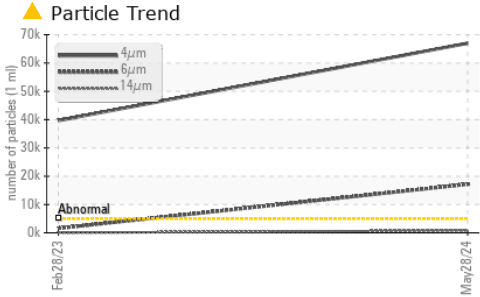
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	5	5
Sodium	ppm	ASTM D5185m	2	2
Potassium	ppm	ASTM D5185m >20	1	0

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 66985	▲ 39661	---
Particles >6µm	ASTM D7647 >1300	▲ 17177	● 1578	---
Particles >14µm	ASTM D7647 >160	▲ 803	16	---
Particles >21µm	ASTM D7647 >40	▲ 123	4	---
Particles >38µm	ASTM D7647 >10	2	0	---
Particles >71µm	ASTM D7647 >3	0	0	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 23/21/17	▲ 22/18/11	---

OIL ANALYSIS REPORT

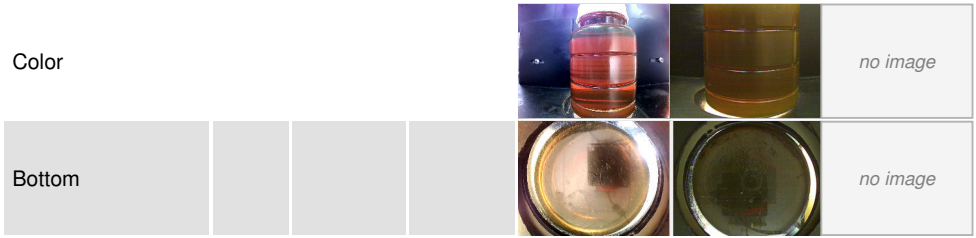


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	1.10	0.85	---

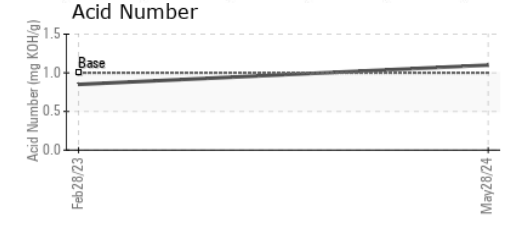
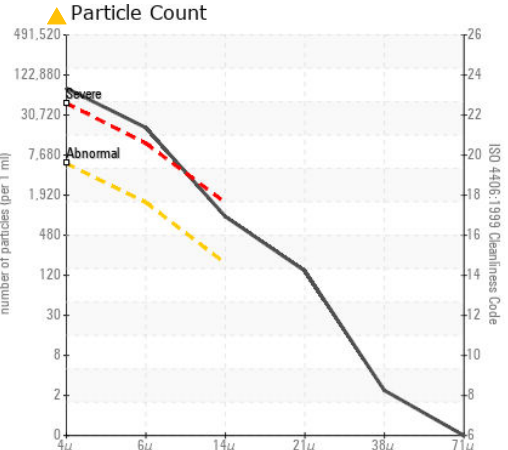
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	65	51.1	49.3	---

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0211645 **Received** : 31 May 2024
Lab Number : **06196580** **Tested** : 03 Jun 2024
Unique Number : 11058703 **Diagnosed** : 03 Jun 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - ASHLAND
 11047 LEADBETTER RD
 ASHLAND, VA
 US 23005
 Contact: DAVID ZIEG
 dzieg@jamesriverequipment.com
 T: (804)798-6001
 F: (804)798-0292

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)