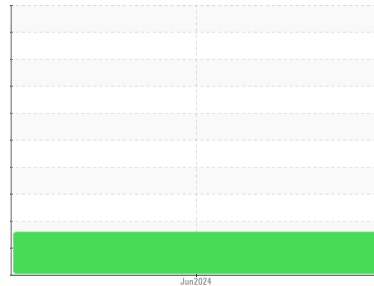


OIL ANALYSIS REPORT



Machine Id
JOHN DEERE 310E 1DW310EXJNF713817
Component
Rear Axle
Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

Sample Rating Trend



WATER



DIAGNOSIS

▲ Recommendation

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

There is a moderate concentration of water present in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		JR0211631	---	---
Sample Date	Client Info		17 Jun 2024	---	---
Machine Age	hrs	Client Info	440	---	---
Oil Age	hrs	Client Info	440	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			ABNORMAL	---	---

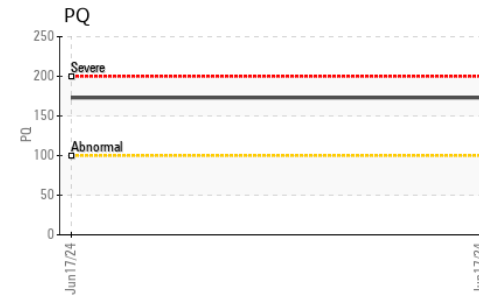
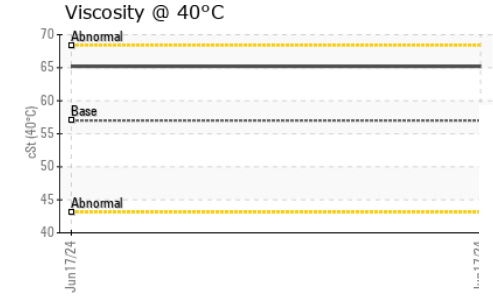
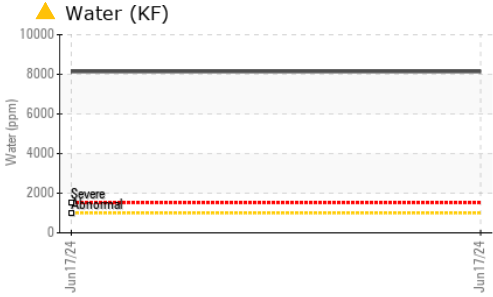
WEAR METALS	method	limit/base	current	history1	history2
PQ	ASTM D8184		173	---	---
Iron	ppm	ASTM D5185m >1501	200	---	---
Chromium	ppm	ASTM D5185m >11	3	---	---
Nickel	ppm	ASTM D5185m >10	5	---	---
Titanium	ppm	ASTM D5185m	<1	---	---
Silver	ppm	ASTM D5185m	<1	---	---
Aluminum	ppm	ASTM D5185m >21	3	---	---
Lead	ppm	ASTM D5185m >51	18	---	---
Copper	ppm	ASTM D5185m >101	240	---	---
Tin	ppm	ASTM D5185m >10	6	---	---
Vanadium	ppm	ASTM D5185m	<1	---	---
Cadmium	ppm	ASTM D5185m	<1	---	---

ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 6	96	---	---
Barium	ppm	ASTM D5185m 0	5	---	---
Molybdenum	ppm	ASTM D5185m 0	<1	---	---
Manganese	ppm	ASTM D5185m	7	---	---
Magnesium	ppm	ASTM D5185m 145	21	---	---
Calcium	ppm	ASTM D5185m 3570	3136	---	---
Phosphorus	ppm	ASTM D5185m 1290	978	---	---
Zinc	ppm	ASTM D5185m 1640	1346	---	---
Sulfur	ppm	ASTM D5185m	4131	---	---

CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >31	22	---	---
Sodium	ppm	ASTM D5185m >51	18	---	---
Potassium	ppm	ASTM D5185m >20	11	---	---
Water	%	ASTM D6304 >0.1	▲ 0.814	---	---
ppm Water	ppm	ASTM D6304 >1000	▲ 8140	---	---

VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	MODER	---	---
Yellow Metal	scalar	*Visual NONE	NONE	---	---
Precipitate	scalar	*Visual NONE	NONE	---	---
Silt	scalar	*Visual NONE	MODER	---	---
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 >0.1	▲ 0.2%	---	---
Free Water	scalar	*Visual	NEG	---	---

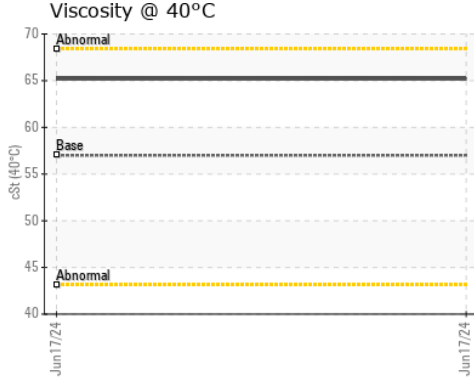
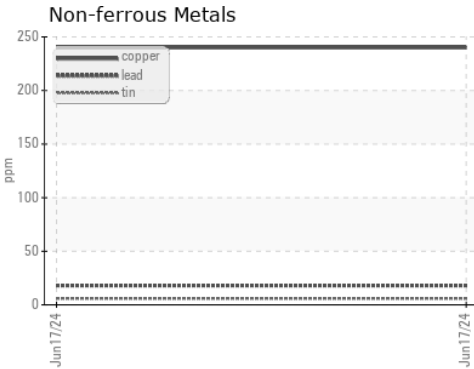
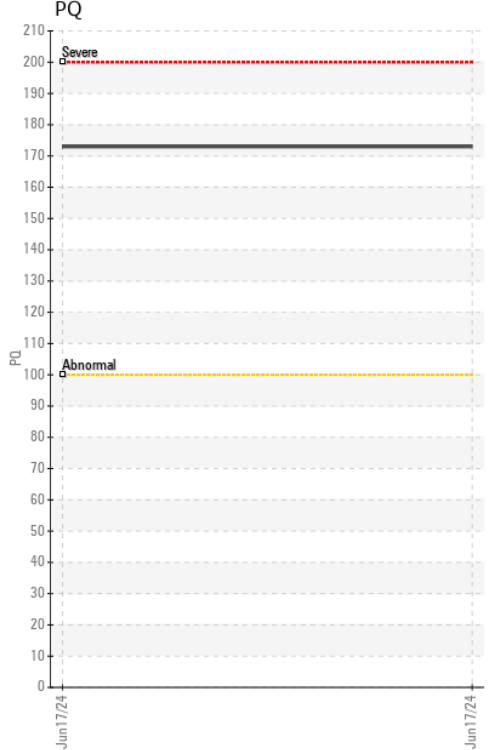
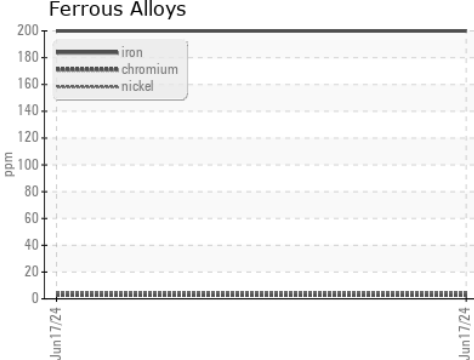
OIL ANALYSIS REPORT



FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	57.0	65.2	---	---

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0211631 **Received** : 25 Jun 2024
Lab Number : **06219972** **Tested** : 26 Jun 2024
Unique Number : 11098169 **Diagnosed** : 26 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: KF, 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)