



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 310E 1DW310EXJNF713817

Component
Rear Axle

Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

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.

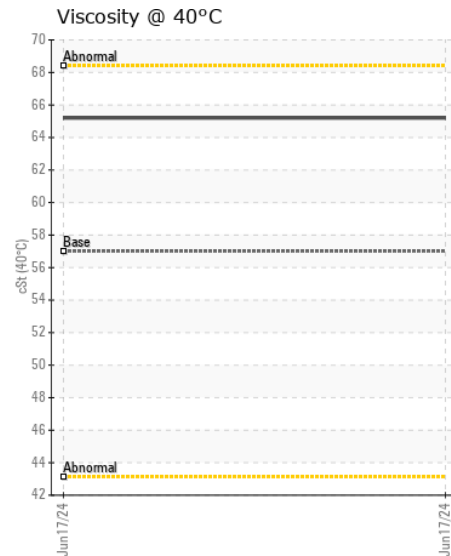
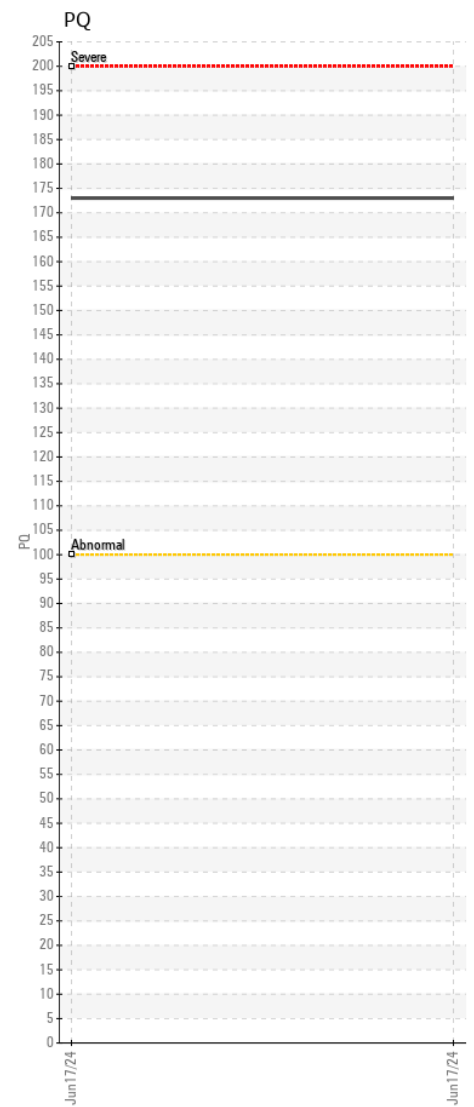
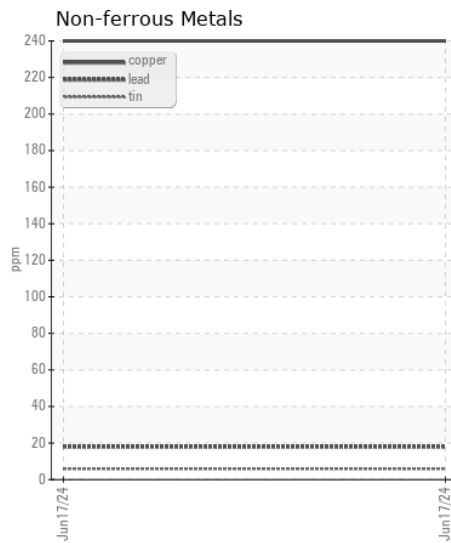
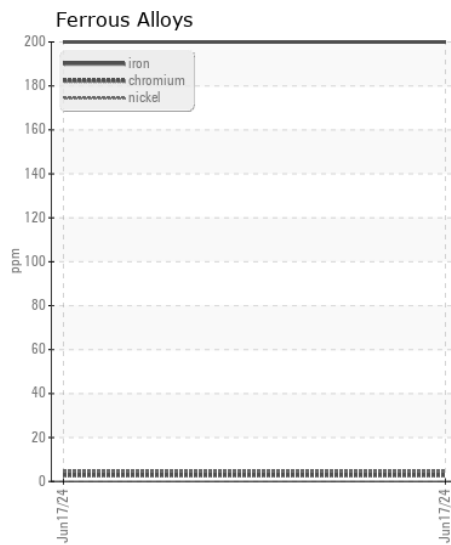
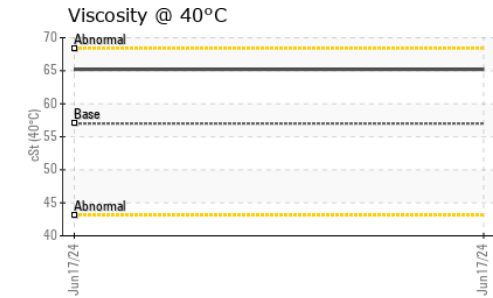
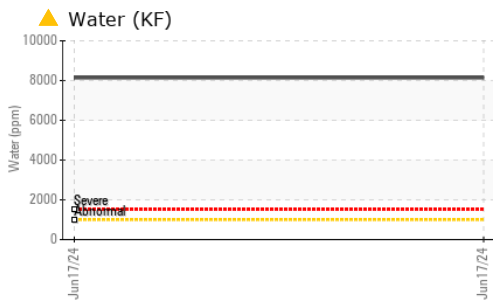
CONTAMINATION

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.

Test	UOM	Method	Limit/Abn	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	---	---
Filter Age	hrs	Client Info		440	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---
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	---	---
White Metal	scalar	*Visual	NONE	MODER	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>31	22	---	---
Potassium	ppm	ASTM D5185m	>20	11	---	---
Water	%	ASTM D6304	>0.1	▲ 0.814	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 8140	---	---
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%	---	---
Sodium	ppm	ASTM D5185m	>51	18	---	---
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	---	---
Visc @ 40°C	cSt	ASTM D445	57.0	65.2	---	---



Certificate L2367

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

Sample No. : JR0211631

Lab Number : 06219972

Unique Number : 11098169

Test Package : CONST (Additional Tests: KF, PQ)

Received : 25 Jun 2024

Tested : 26 Jun 2024

Diagnosed : 26 Jun 2024 - Sean Felton

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)