



Machine Id
JOHN DEERE 711759

Component
Rear Axle

Fluid
JOHN DEERE HY-GARD HYD/TRANS (9 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. Please specify the component make and model with your next sample.

WEAR

The copper level is abnormal. All other component wear rates are normal.

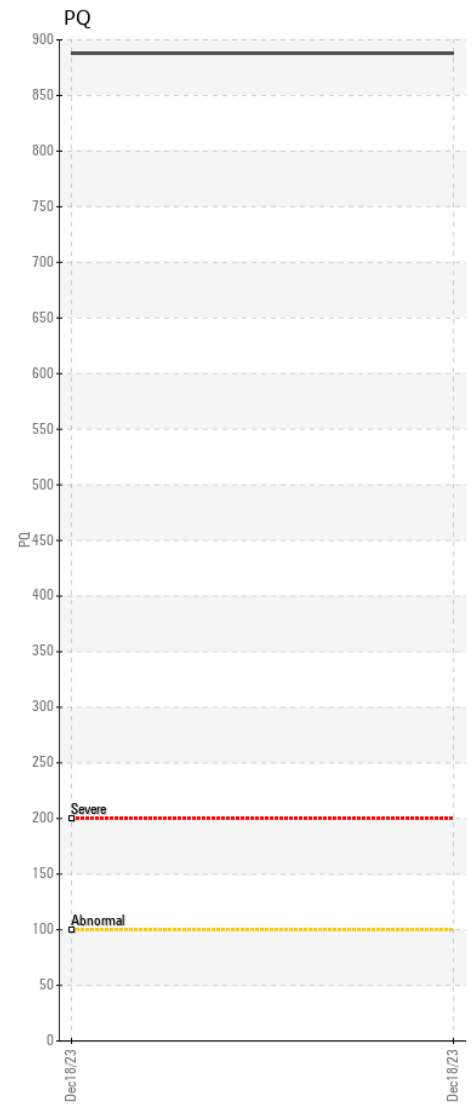
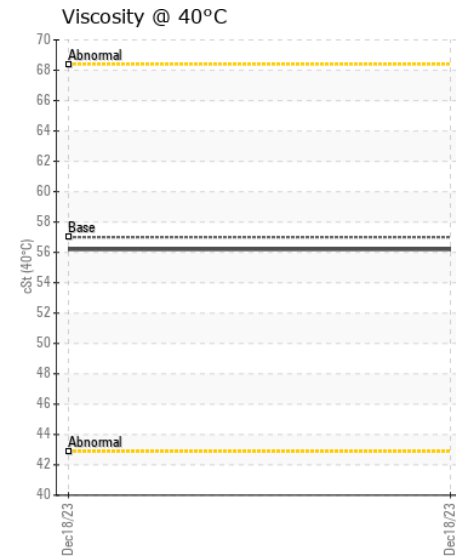
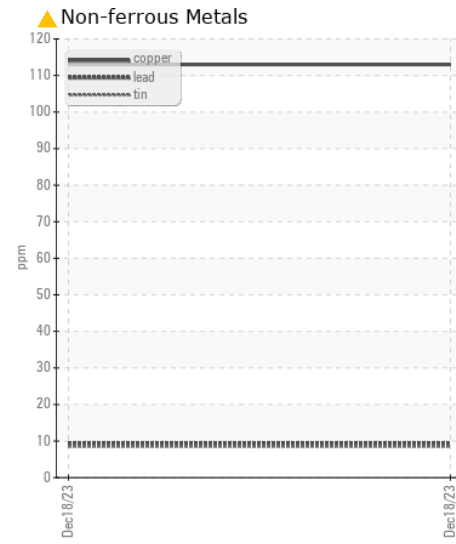
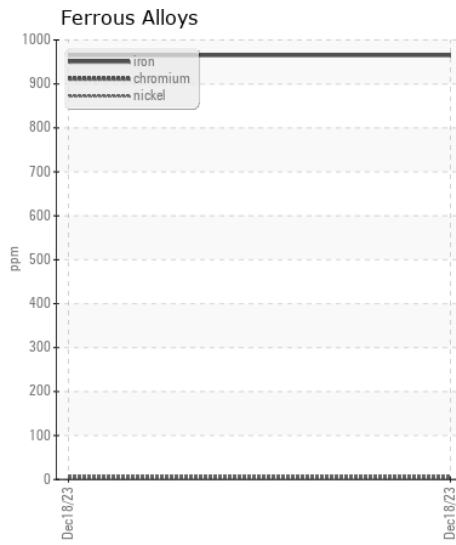
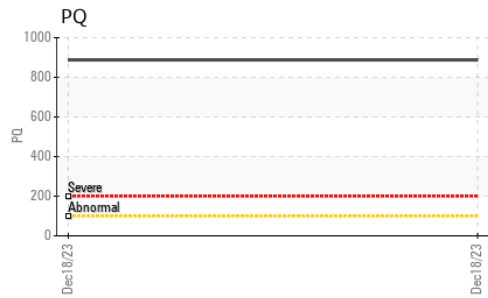
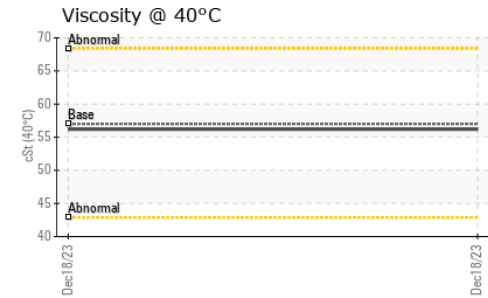
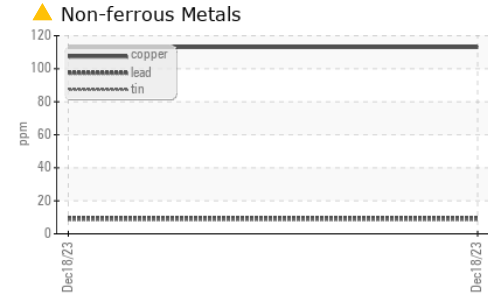
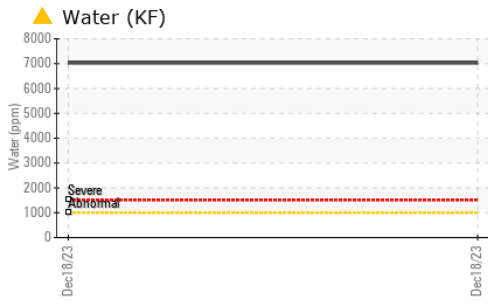
CONTAMINATION

There is a moderate concentration of water present in the oil. Moderate concentration of visible dirt/debris 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		JR0193571	---	---
Sample Date		Client Info		18 Dec 2023	---	---
Machine Age	hrs	Client Info		4351	---	---
Oil Age	hrs	Client Info		4351	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---
PQ		ASTM D8184		888	---	---
Iron	ppm	ASTM D5185m	>750	965	---	---
Chromium	ppm	ASTM D5185m	>11	5	---	---
Nickel	ppm	ASTM D5185m	>10	7	---	---
Titanium	ppm	ASTM D5185m		2	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>21	5	---	---
Lead	ppm	ASTM D5185m	>49	9	---	---
Copper	ppm	ASTM D5185m	>101	▲ 113	---	---
Tin	ppm	ASTM D5185m	>10	8	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>31	24	---	---
Potassium	ppm	ASTM D5185m	>20	9	---	---
Water	%	ASTM D6304	>0.1	▲ 0.703	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 7030	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	▲ MODER	---	---
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	10	---	---
Boron	ppm	ASTM D5185m	6	4	---	---
Barium	ppm	ASTM D5185m	0	0	---	---
Molybdenum	ppm	ASTM D5185m	0	2	---	---
Manganese	ppm	ASTM D5185m		26	---	---
Magnesium	ppm	ASTM D5185m	145	83	---	---
Calcium	ppm	ASTM D5185m	3570	3114	---	---
Phosphorus	ppm	ASTM D5185m	1290	909	---	---
Zinc	ppm	ASTM D5185m	1640	1140	---	---
Sulfur	ppm	ASTM D5185m		3310	---	---
Visc @ 40°C	cSt	ASTM D445	57.0	56.2	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0193571 **Received** : 20 Dec 2023
Lab Number : 06040735 **Tested** : 21 Dec 2023
Unique Number : 10795964 **Diagnosed** : 22 Dec 2023 - Sean Felton
Test Package : CONST (Additional Tests: KF, PQ)

MILLS BROTHERS LOGGING
 1035 BIDDLE RD
 DOVER, NC
 US 28526
 Contact: Service Manager

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)

T:
F: