



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 711759

Component
Brake

Fluid
JOHN DEERE HY-GARD HYD/TRANS (1 QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The fluid change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

The iron level is severe. The lead level is severe.

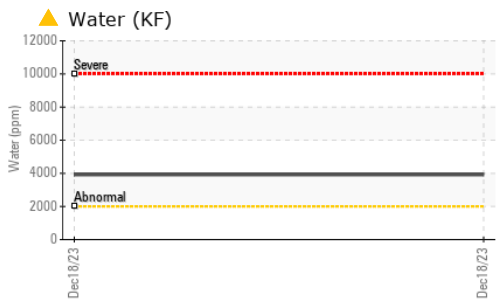
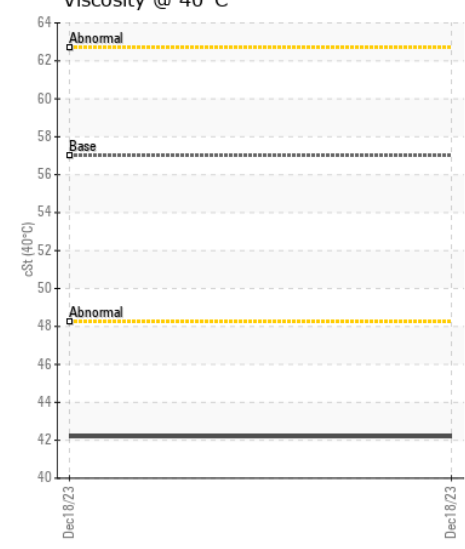
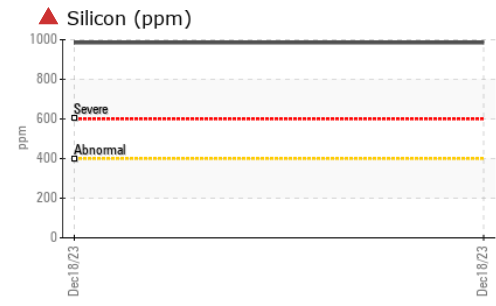
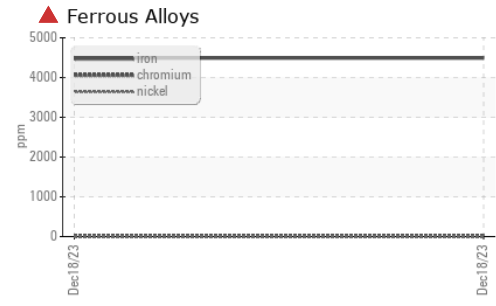
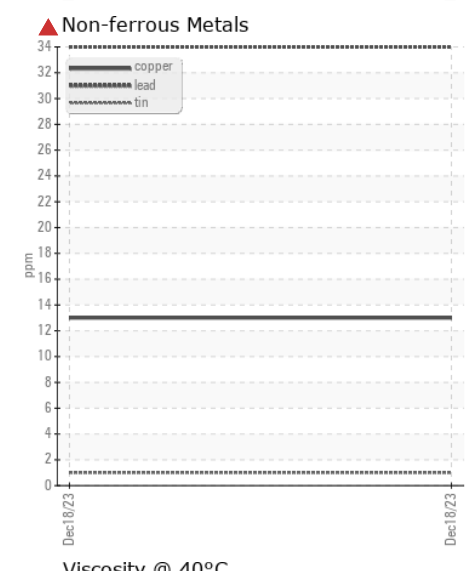
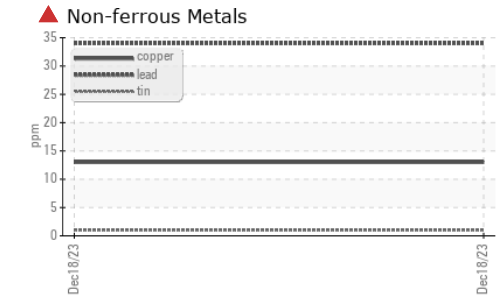
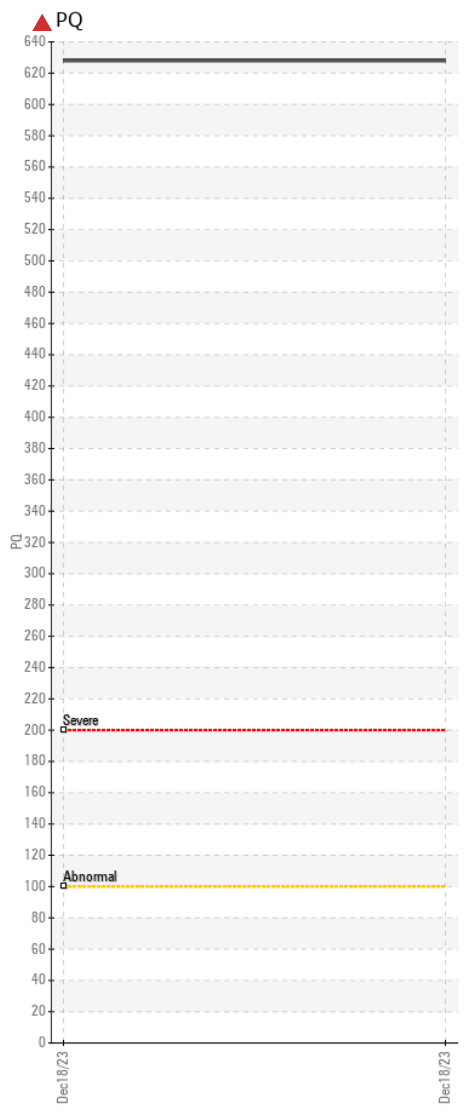
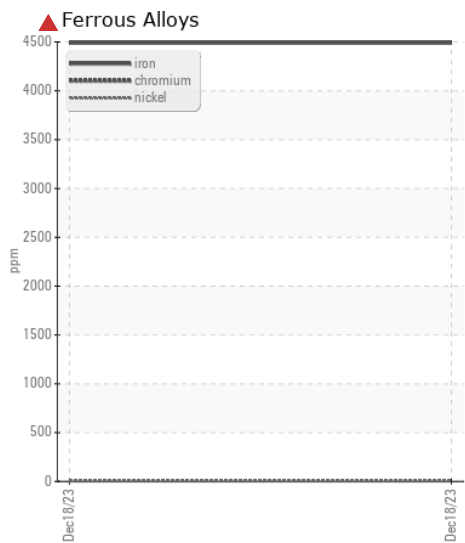
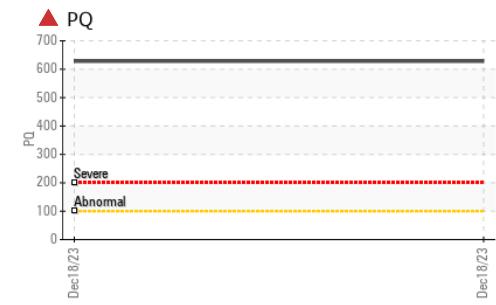
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a moderate concentration of water present in the fluid.

FLUID CONDITION

The fluid is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0193583	---	---
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		N/A	---	---
Sample Status				SEVERE	---	---
PQ		ASTM D8184		▲ 628	---	---
Iron	ppm	ASTM D5185m	>350	▲ 4490	---	---
Chromium	ppm	ASTM D5185m	>5	8	---	---
Nickel	ppm	ASTM D5185m	>5	5	---	---
Titanium	ppm	ASTM D5185m		7	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>8	● 25	---	---
Lead	ppm	ASTM D5185m	>10	▲ 34	---	---
Copper	ppm	ASTM D5185m	>150	13	---	---
Tin	ppm	ASTM D5185m	>5	1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>400	▲ 985	---	---
Potassium	ppm	ASTM D5185m	>20	23	---	---
Water	%	ASTM D6304	>0.2	▲ 0.392	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 3920	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
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	>0.2	0.2%	---	---
Sodium	ppm	ASTM D5185m		118	---	---
Boron	ppm	ASTM D5185m	6	15	---	---
Barium	ppm	ASTM D5185m	0	0	---	---
Molybdenum	ppm	ASTM D5185m	0	178	---	---
Manganese	ppm	ASTM D5185m		31	---	---
Magnesium	ppm	ASTM D5185m	145	142	---	---
Calcium	ppm	ASTM D5185m	3570	542	---	---
Phosphorus	ppm	ASTM D5185m	1290	545	---	---
Zinc	ppm	ASTM D5185m	1640	257	---	---
Sulfur	ppm	ASTM D5185m		1944	---	---
Visc @ 40°C	cSt	ASTM D445	57.0	42.2	---	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0193583 **Received** : 20 Dec 2023
Lab Number : 06040732 **Tested** : 21 Dec 2023
Unique Number : 10795961 **Diagnosed** : 22 Dec 2023 - Jonathan Hester
Test Package : CONST (Additional Tests: KF, PQ)

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

Certificate L2367
 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: