



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 4300 LV4300H331554
 Component
Hydraulic System
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0189791	---	---
Sample Date		Client Info		17 Apr 2024	---	---
Machine Age	hrs	Client Info		449	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184		26	---	---
Iron	ppm	ASTM D5185m	>20	20	---	---
Chromium	ppm	ASTM D5185m	>10	0	---	---
Nickel	ppm	ASTM D5185m	>10	0	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		6	---	---
Aluminum	ppm	ASTM D5185m	>10	2	---	---
Lead	ppm	ASTM D5185m	>10	6	---	---
Copper	ppm	ASTM D5185m	>75	58	---	---
Tin	ppm	ASTM D5185m	>10	<1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

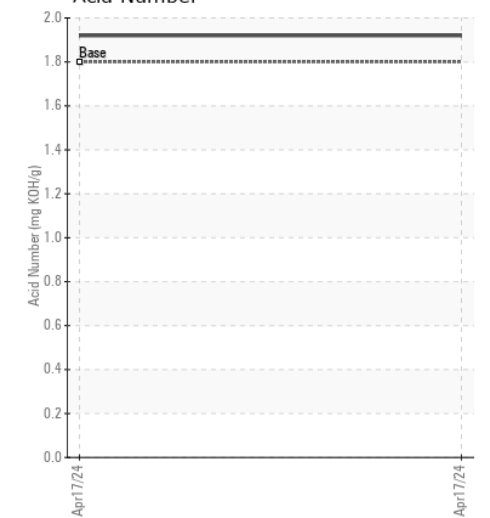
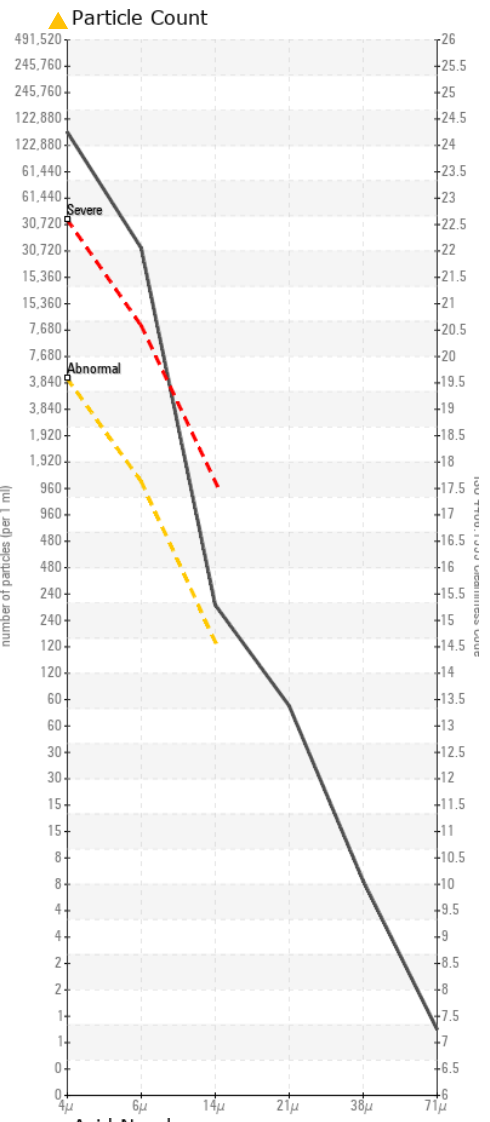
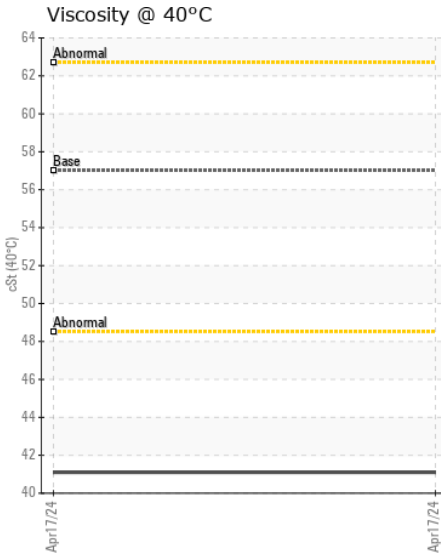
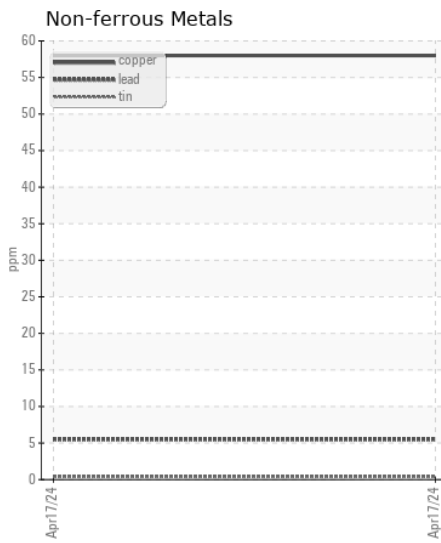
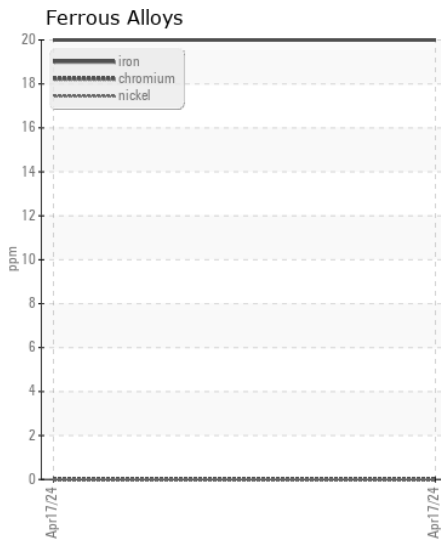
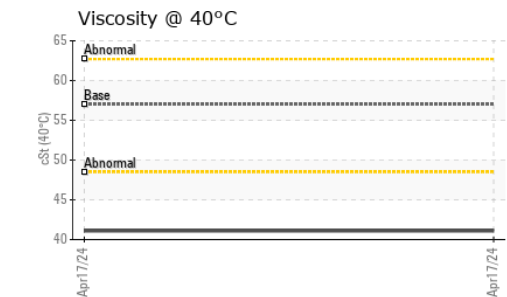
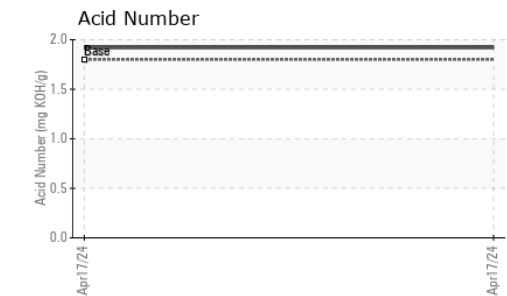
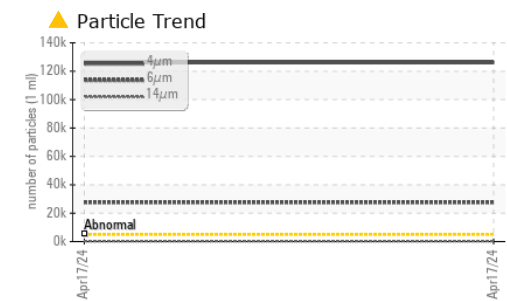
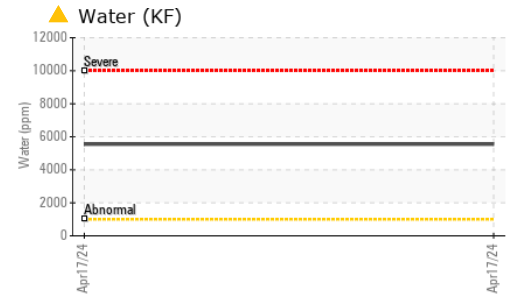
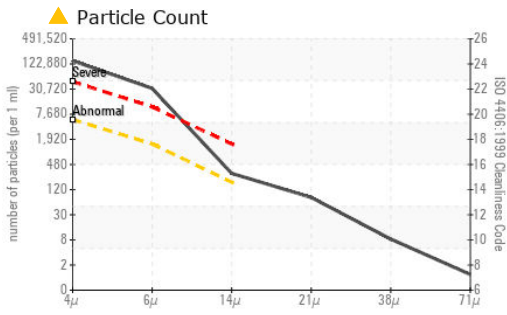
There is a high amount of particulates present in the oil. There is a moderate concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>20	8	---	---
Potassium	ppm	ASTM D5185m	>20	<1	---	---
Water	%	ASTM D6304	>0.1	▲ 0.555	---	---
ppm Water	ppm	ASTM D6304	>1000	▲ 5550	---	---
Particles >4µm		ASTM D7647	>5000	▲ 126007	---	---
Particles >6µm		ASTM D7647	>1300	▲ 27625	---	---
Particles >14µm		ASTM D7647	>160	▲ 259	---	---
Particles >21µm		ASTM D7647	>40	▲ 69	---	---
Particles >38µm		ASTM D7647	>10	7	---	---
Particles >71µm		ASTM D7647	>3	1	---	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 24/22/15	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	LIGHT	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	▲ 0.2%	---	---

FLUID CONDITION

The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		3	---	---
Boron	ppm	ASTM D5185m	6	13	---	---
Barium	ppm	ASTM D5185m	0	<1	---	---
Molybdenum	ppm	ASTM D5185m	0	0	---	---
Manganese	ppm	ASTM D5185m		4	---	---
Magnesium	ppm	ASTM D5185m	145	61	---	---
Calcium	ppm	ASTM D5185m	3570	2423	---	---
Phosphorus	ppm	ASTM D5185m	1290	915	---	---
Zinc	ppm	ASTM D5185m	1640	1106	---	---
Sulfur	ppm	ASTM D5185m		4016	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	1.92	---	---
Visc @ 40°C	cSt	ASTM D445	57.0	41.1	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0189791 **Received** : 22 Apr 2024
Lab Number : 06155790 **Tested** : 23 Apr 2024
Unique Number : 10991213 **Diagnosed** : 24 Apr 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF, PQ)

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)

JRE - LA CROSSE
 38431 HWY 58
 LA CROSSE, VA
 US 23950-1807

Contact: HUNTER GREEN
 hgreen@jamesriverequipment.com

T: (434)447-4325

F: (434)447-1329