



WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 310G T0310GX901801
 Component
Front Axle
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0193961	JR0167539	---
Sample Date		Client Info		12 Jan 2024	16 Jun 2023	---
Machine Age	hrs	Client Info		8163	7520	---
Oil Age	hrs	Client Info		643	7520	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				ABNORMAL	SEVERE	---

WEAR

All component wear rates are normal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		94	551	---
Iron	ppm	ASTM D5185m	>750	186	731	---
Chromium	ppm	ASTM D5185m	>11	2	7	---
Nickel	ppm	ASTM D5185m	>10	3	8	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>21	1	2	---
Lead	ppm	ASTM D5185m	>49	1	<1	---
Copper	ppm	ASTM D5185m	>101	78	85	---
Tin	ppm	ASTM D5185m	>10	0	1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

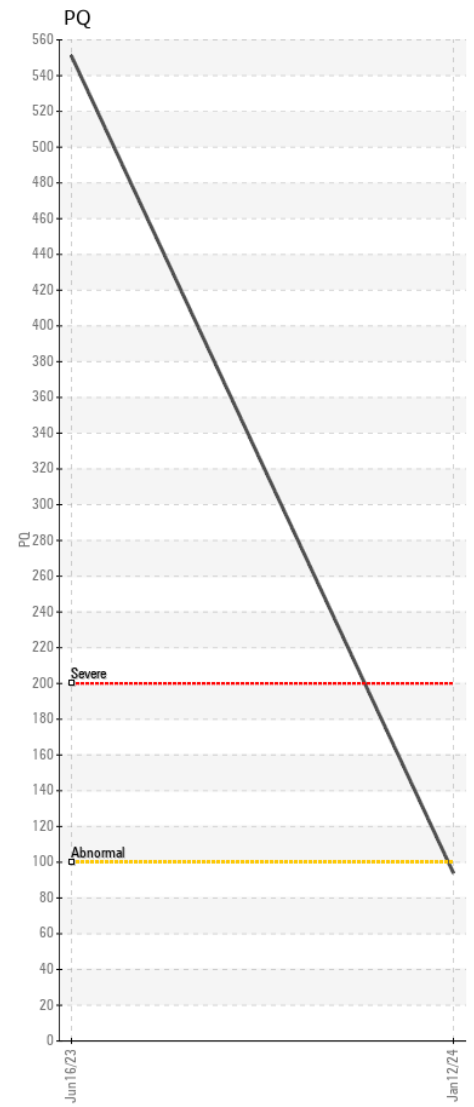
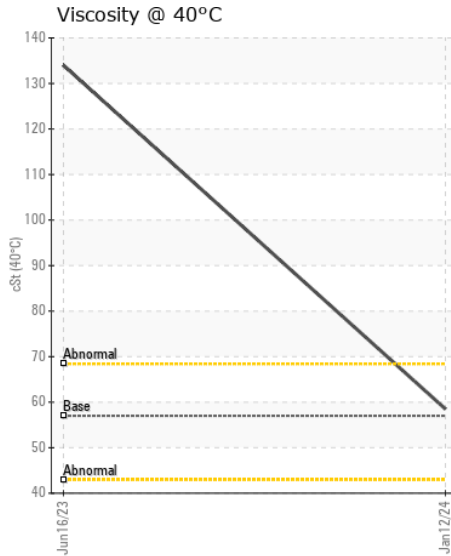
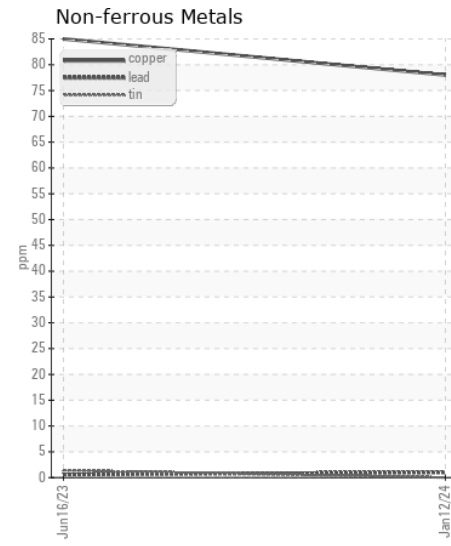
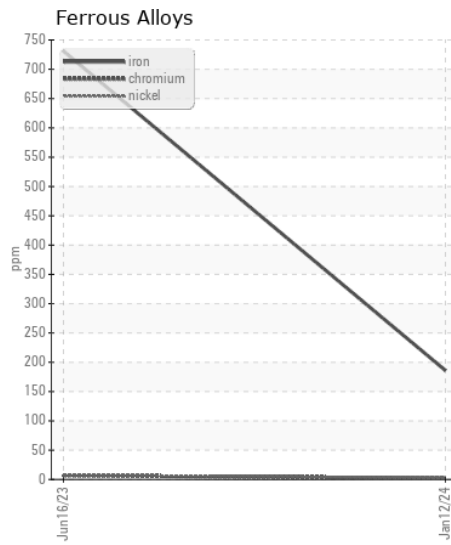
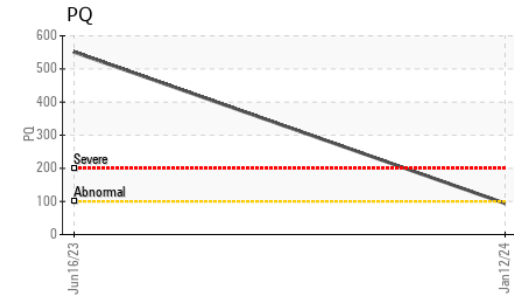
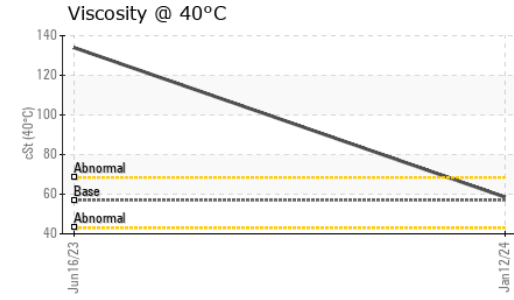
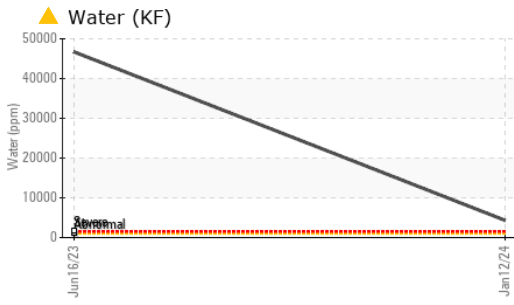
There is a moderate concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>31	11	16	---
Potassium	ppm	ASTM D5185m	>20	0	<1	---
Water	%	ASTM D6304	>0.1	▲ 0.433	● 4.67	---
ppm Water	ppm	ASTM D6304	>1000	▲ 4330	● 46700	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	▲ MILKY	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	▲ 0.2%	● 0.2%	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	0	0	---
Boron	ppm	ASTM D5185m	6	4	6	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	0	4	1	---
Manganese	ppm	ASTM D5185m		2	6	---
Magnesium	ppm	ASTM D5185m	145	85	3	---
Calcium	ppm	ASTM D5185m	3570	3202	34	---
Phosphorus	ppm	ASTM D5185m	1290	901	433	---
Zinc	ppm	ASTM D5185m	1640	1136	36	---
Sulfur	ppm	ASTM D5185m		3798	22997	---
Visc @ 40°C	cSt	ASTM D445	57.0	58.5	134	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0193961 **Received** : 17 Jan 2024
Lab Number : 06063005 **Diagnosed** : 19 Jan 2024
Unique Number : 10834387 **Diagnostician** : Sean Felton
Test Package : CONST (Additional Tests: KF, PQ)

JRE - GARNER
 4161 AUBURN CHURCH RD
 GARNER, NC
 US 27529

Contact: RALEIGH SHOP
 sean.betts@jamesriverequipment.com; catherine.anastasio@wearcheck.com

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)

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