



WEAR	SEVERE
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 4730 N04730X005553
Component
Rear Right Final Drive
Fluid
JOHN DEERE GL-5 80W90 (--- QTS)

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0201591	JR0149367	JRMC252680
Sample Date		Client Info		02 Mar 2024	04 Apr 2023	02 Feb 2012
Machine Age	hrs	Client Info		0	0	474
Oil Age	hrs	Client Info		0	0	474
Filter Age	hrs	Client Info		0	0	474
Oil Changed		Client Info		N/A	N/A	Not Changd
Filter Changed		Client Info		N/A	N/A	Not Changd
Sample Status				SEVERE	SEVERE	ABNORMAL

WEAR

Copper and tin ppm levels are severe. Chromium and iron ppm levels are abnormal. Bearing and/or bushing wear is indicated.

PQ		ASTM D8184	>1250	197	98	97.0
Iron	ppm	ASTM D5185m	>750	▲ 1205	▲ 995	473
Chromium	ppm	ASTM D5185m	>9	▲ 12	▲ 11	6
Nickel	ppm	ASTM D5185m	>10	2	2	0
Titanium	ppm	ASTM D5185m		<1	<1	1
Silver	ppm	ASTM D5185m		1	0	<1
Aluminum	ppm	ASTM D5185m	>40	2	2	3
Lead	ppm	ASTM D5185m	>15	1	1	3
Copper	ppm	ASTM D5185m	>40	▲ 3109	▲ 2483	▲ 873
Tin	ppm	ASTM D5185m	>10	▲ 284	▲ 254	46
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	MODER	LIGHT
Yellow Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE

CONTAMINATION

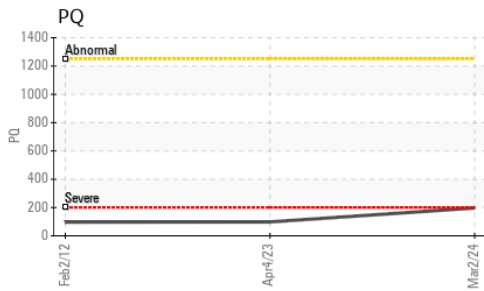
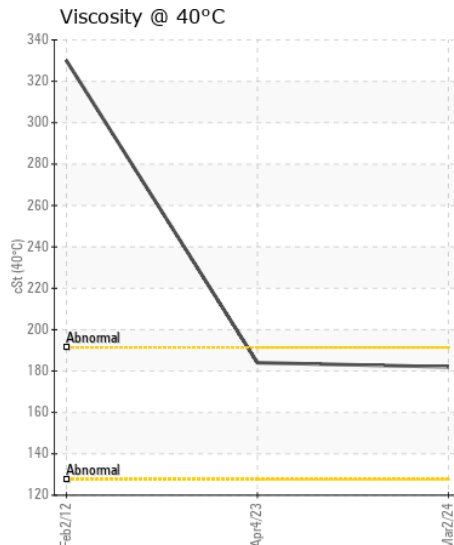
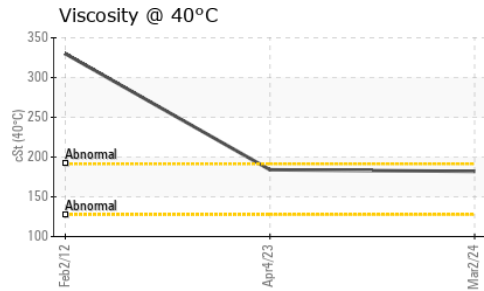
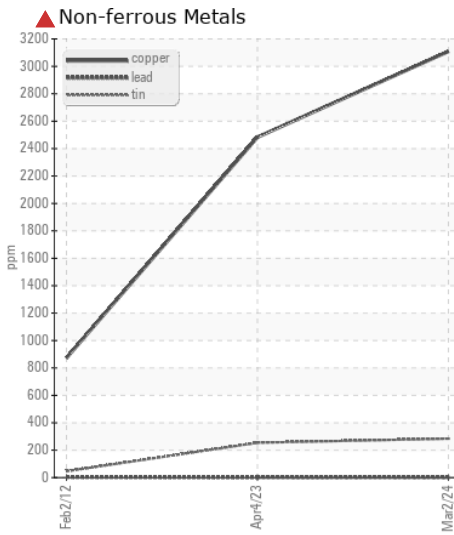
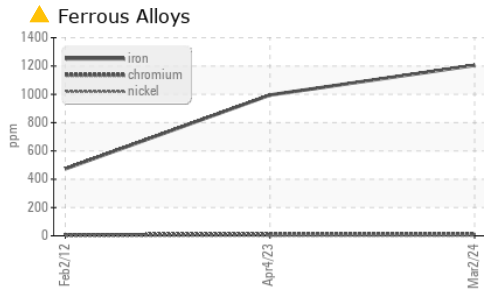
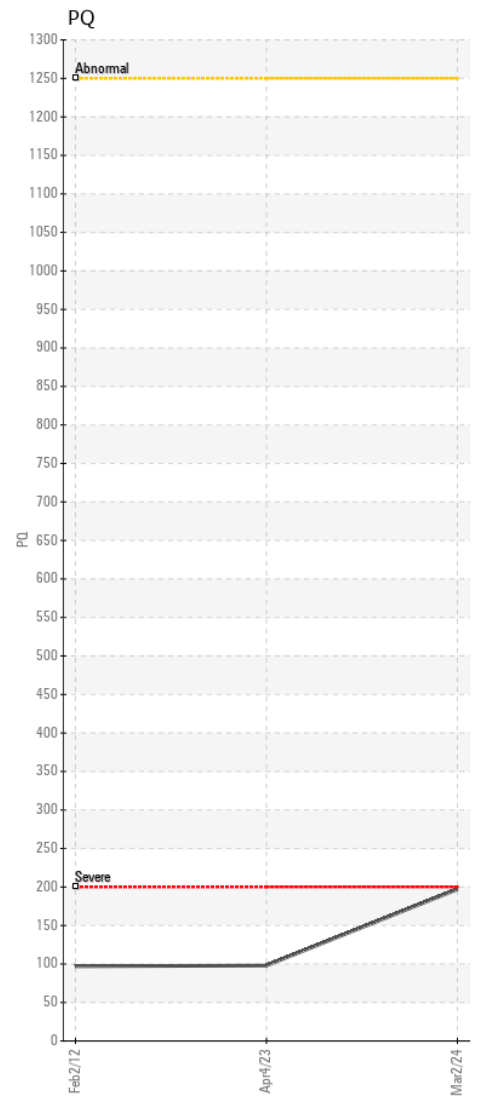
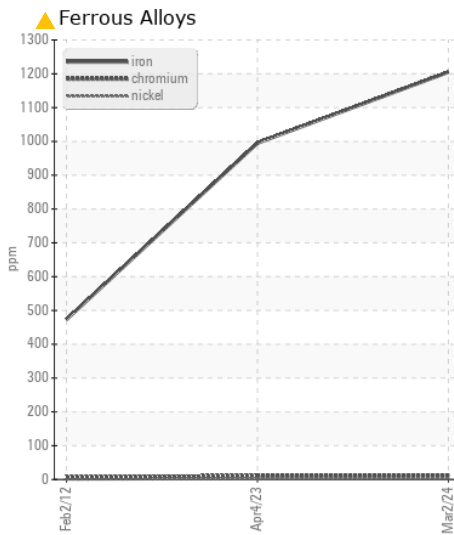
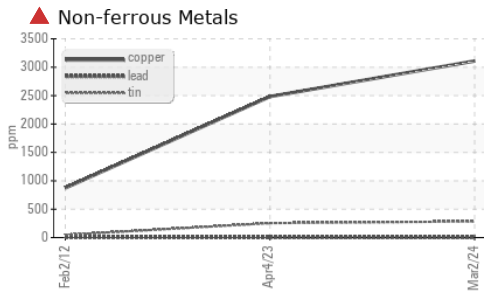
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	31	26	13
Potassium	ppm	ASTM D5185m	>20	3	2	0
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	0.1%

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185m	>51	3	3	19
Boron	ppm	ASTM D5185m		34	21	150
Barium	ppm	ASTM D5185m		0	0	8
Molybdenum	ppm	ASTM D5185m		3	3	6
Manganese	ppm	ASTM D5185m		8	6	8
Magnesium	ppm	ASTM D5185m		3	3	3
Calcium	ppm	ASTM D5185m		29	32	81
Phosphorus	ppm	ASTM D5185m		373	350	1158
Zinc	ppm	ASTM D5185m		429	404	176
Sulfur	ppm	ASTM D5185m		17856	16746	23618
Visc @ 40°C	cSt	ASTM D445		182	184	330.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0201591 **Received** : 01 Mar 2024
Lab Number : 06106331 **Tested** : 04 Mar 2024
Unique Number : 10909828 **Diagnosed** : 05 Mar 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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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)