



Area
[W8874]
 Machine Id
JOHN DEERE 544G 1YN544GAPPLA00193
 Component
Front Differential
 Fluid
JOHN DEERE GL-5 80W90 (4 GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: W8874)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0196940	JR0197588	---
Sample Date		Client Info		08 May 2024	28 Jan 2024	---
Machine Age	hrs	Client Info		996	544	---
Oil Age	hrs	Client Info		452	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ATTENTION	ABNORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184		106	66	---
Iron	ppm	ASTM D5185m	>500	215	221	---
Chromium	ppm	ASTM D5185m	>10	2	<1	---
Nickel	ppm	ASTM D5185m	>10	1	<1	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	2	2	---
Lead	ppm	ASTM D5185m	>25	2	<1	---
Copper	ppm	ASTM D5185m	>100	22	12	---
Tin	ppm	ASTM D5185m	>10	<1	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

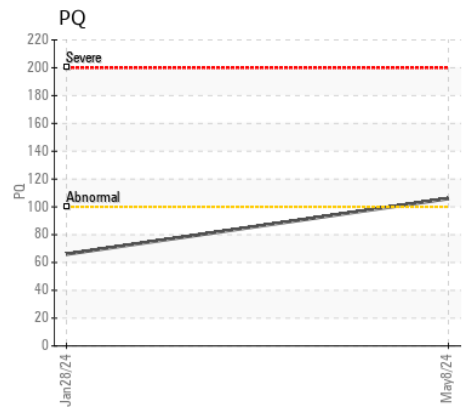
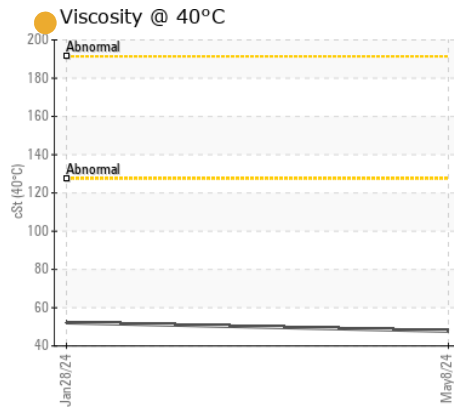
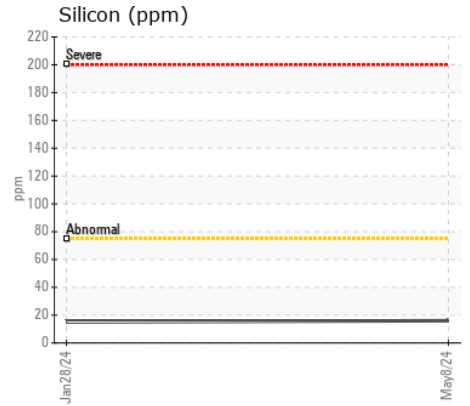
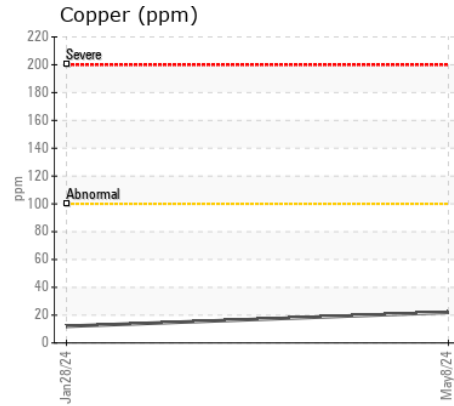
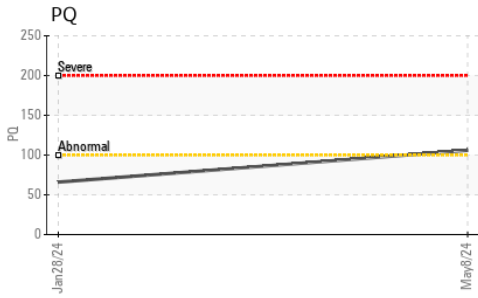
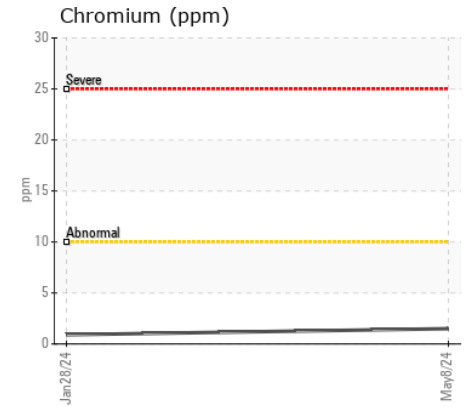
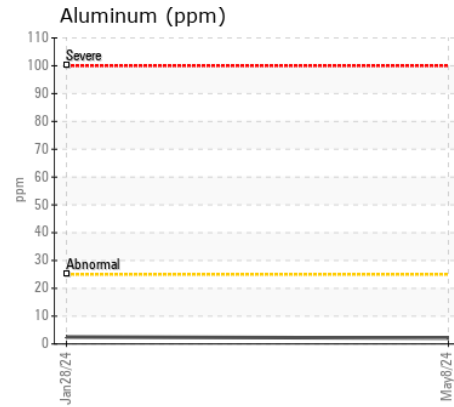
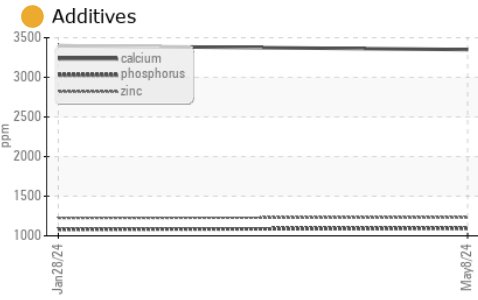
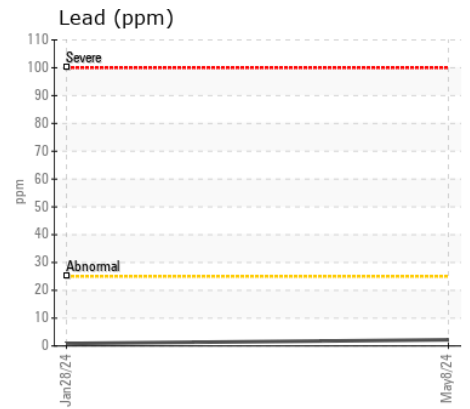
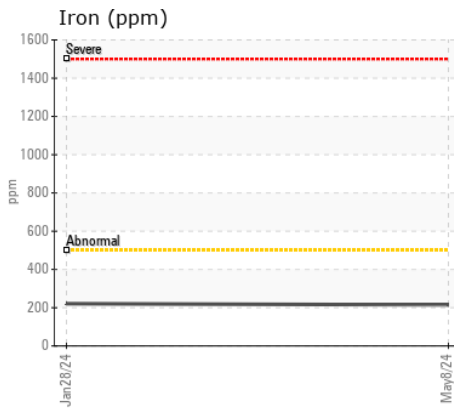
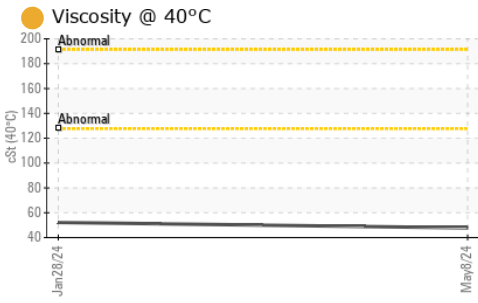
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	16	15	---
Potassium	ppm	ASTM D5185m	>20	2	2	---
Water		WC Method	>.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	▲ MODER	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	---

FLUID CONDITION

The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		8	0	---
Boron	ppm	ASTM D5185m		0	5	---
Barium	ppm	ASTM D5185m		<1	1	---
Molybdenum	ppm	ASTM D5185m		2	0	---
Manganese	ppm	ASTM D5185m		2	2	---
Magnesium	ppm	ASTM D5185m		97	102	---
Calcium	ppm	ASTM D5185m		3350	3399	---
Phosphorus	ppm	ASTM D5185m		1094	1082	---
Zinc	ppm	ASTM D5185m		1232	1224	---
Sulfur	ppm	ASTM D5185m		4152	5015	---
Visc @ 40°C	cSt	ASTM D445		47.8	52.2	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0196940

Lab Number : 06174207

Unique Number : 11020260

Test Package : MOBCE (Additional Tests: PQ)

Received : 09 May 2024

Tested : 10 May 2024

Diagnosed : 12 May 2024 - Don Baldrige

JRE - GARNER

4161 AUBURN CHURCH RD

GARNER, NC

US 27529

Contact: RALEIGH SHOP

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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)