



Area

[W9019]

Machine Id

JOHN DEERE H1590586

Component

Agitator Gearbox

Fluid

JOHN DEERE GL-5 80W90 (1 QTS)

RECOMMENDATION

The oil 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. (Customer Sample Comment: W9019)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0196941	---	---
Sample Date		Client Info		18 Jun 2024	---	---
Machine Age	hrs	Client Info		3529	---	---
Oil Age	hrs	Client Info		3529	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---

WEAR

Gear wear is indicated.

PQ		ASTM D8184		393	---	---
Iron	ppm	ASTM D5185m	>200	▲ 2171	---	---
Chromium	ppm	ASTM D5185m	>10	▲ 17	---	---
Nickel	ppm	ASTM D5185m	>10	3	---	---
Titanium	ppm	ASTM D5185m		4	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m		2	---	---
Lead	ppm	ASTM D5185m		2	---	---
Copper	ppm	ASTM D5185m		37	---	---
Tin	ppm	ASTM D5185m		<1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

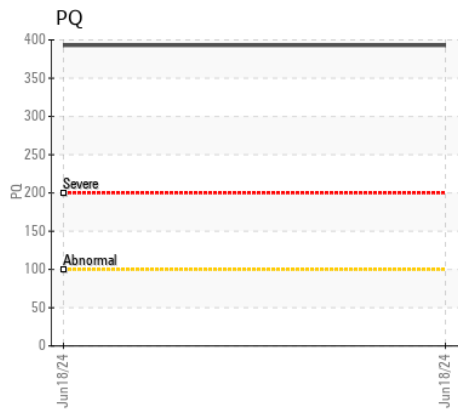
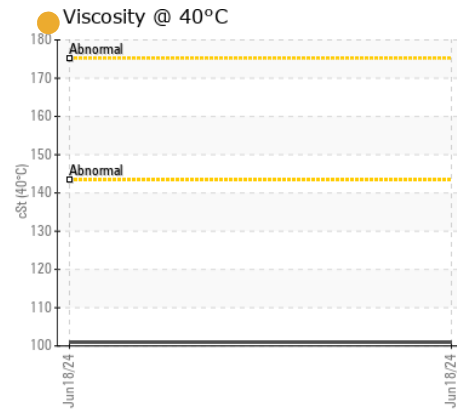
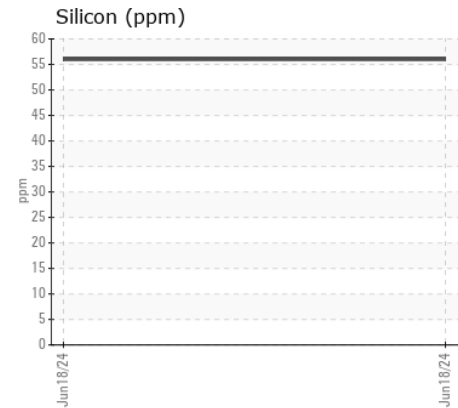
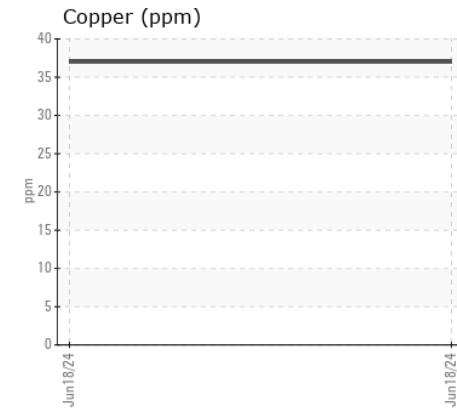
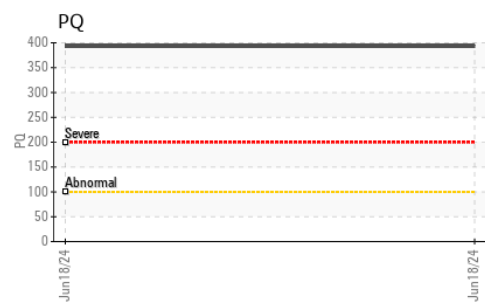
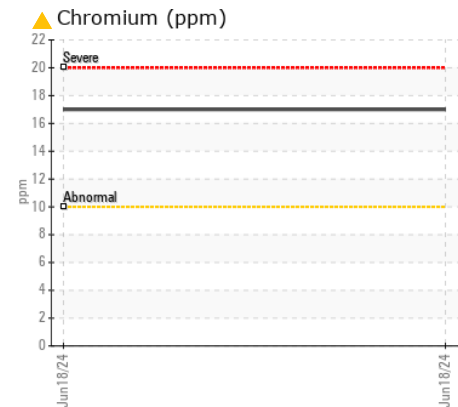
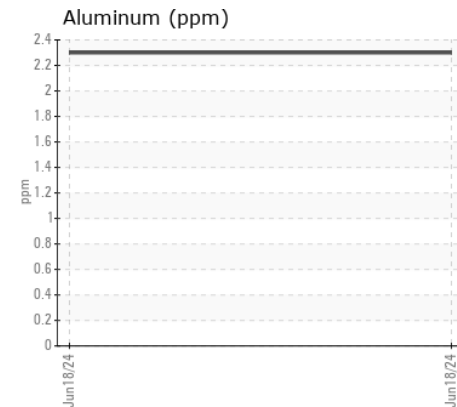
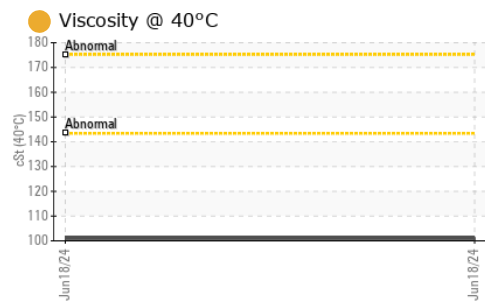
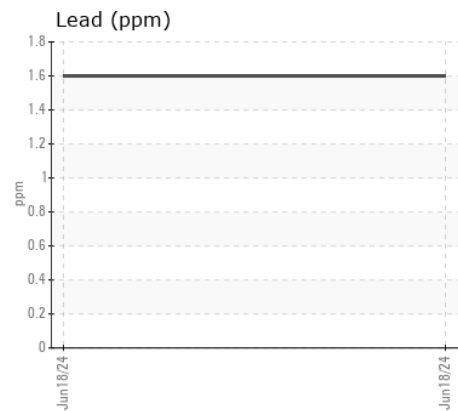
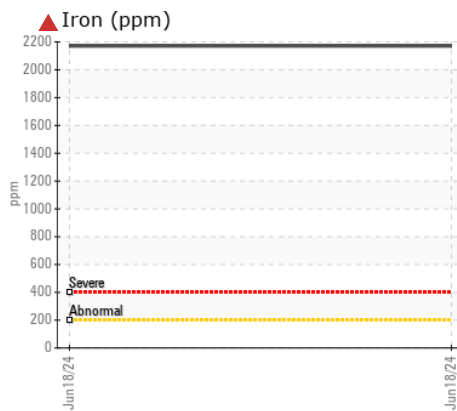
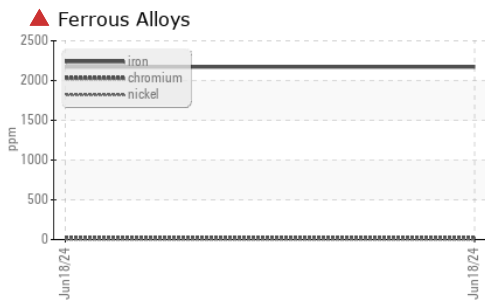
There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m		56	---	---
Potassium	ppm	ASTM D5185m	>20	0	---	---
Water		WC Method	>0.2	NEG	---	---
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	NEG	---	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		5	---	---
Boron	ppm	ASTM D5185m		344	---	---
Barium	ppm	ASTM D5185m		2	---	---
Molybdenum	ppm	ASTM D5185m		<1	---	---
Manganese	ppm	ASTM D5185m		24	---	---
Magnesium	ppm	ASTM D5185m		844	---	---
Calcium	ppm	ASTM D5185m		178	---	---
Phosphorus	ppm	ASTM D5185m		1589	---	---
Zinc	ppm	ASTM D5185m		107	---	---
Sulfur	ppm	ASTM D5185m		25012	---	---
Visc @ 40°C	cSt	ASTM D445		● 101	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0196941 **Received** : 20 Jun 2024
Lab Number : 06215991 **Tested** : 22 Jun 2024
Unique Number : 11088855 **Diagnosed** : 23 Jun 2024 - Don Baldrige
Test Package : MOBCE (Additional Tests: PQ)

JRE - NEW BERN
 3816 MARTIN LUTHER KING BLVD
 NEW BERN, NC
 US 28562
 Contact: NEW BERN SHOP
 nick.etherdridge@jamesriverequipment.com; canastasio@wearcheckusa.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)