



WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[W46599]
 Machine Id
Pe4045n017932
 Component
Front Left Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: W46599)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0197317	---	---
Sample Date		Client Info		04 Jan 2024	---	---
Machine Age	hrs	Client Info		4036	---	---
Oil Age	hrs	Client Info		4036	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ABNORMAL	---	---

WEAR

Gear wear is indicated. All other metal levels are typical for a new component breaking in.

PQ		ASTM D8184		44	---	---
Iron	ppm	ASTM D5185m	>500	▲ 1673	---	---
Chromium	ppm	ASTM D5185m	>10	▲ 11	---	---
Nickel	ppm	ASTM D5185m	>10	3	---	---
Titanium	ppm	ASTM D5185m		2	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>25	14	---	---
Lead	ppm	ASTM D5185m	>25	1	---	---
Copper	ppm	ASTM D5185m	>50	4	---	---
Tin	ppm	ASTM D5185m	>10	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

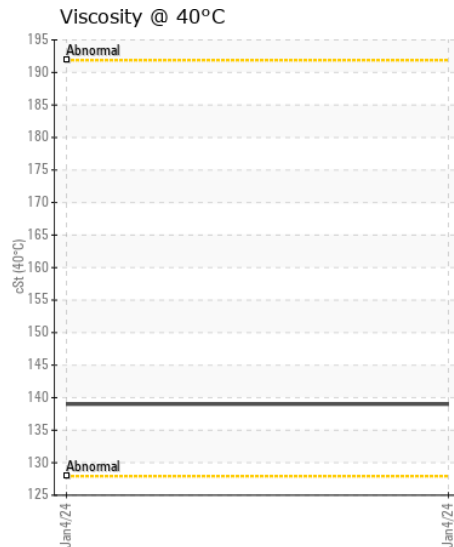
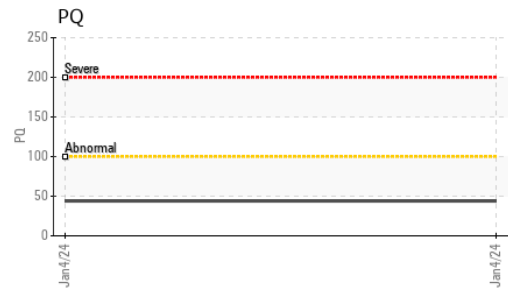
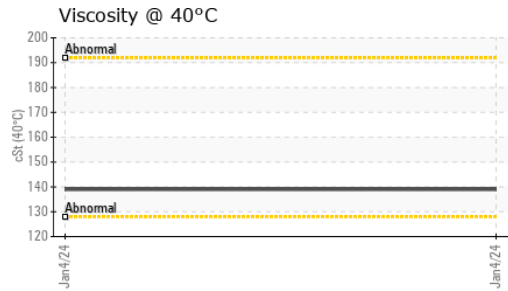
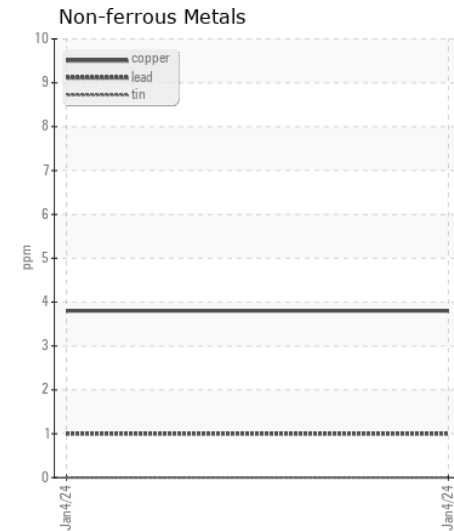
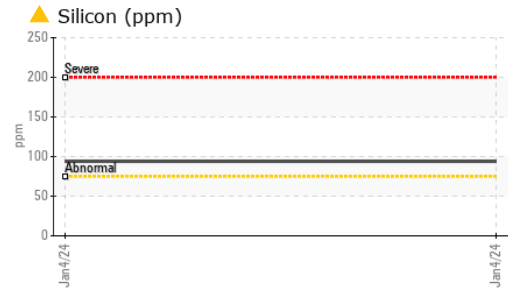
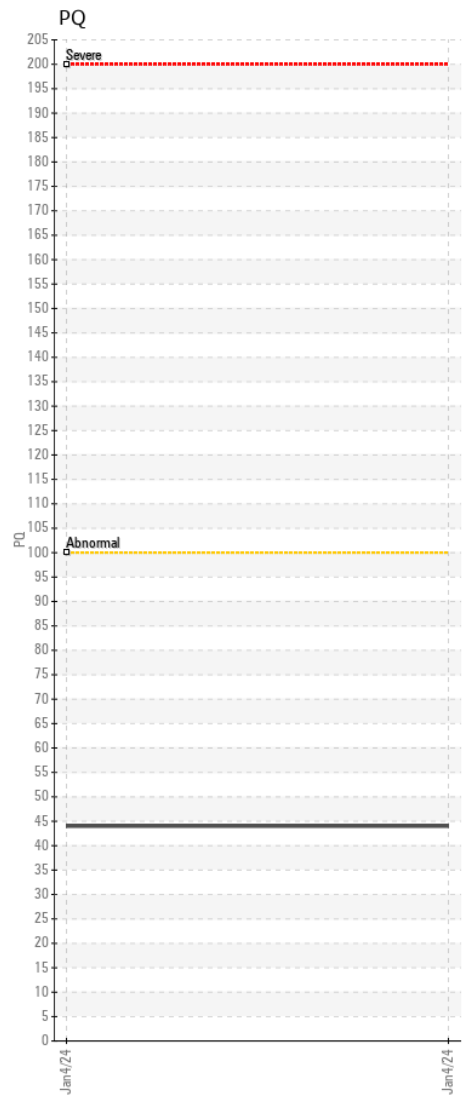
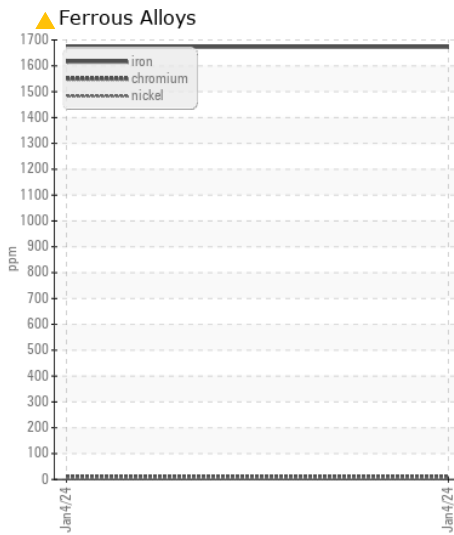
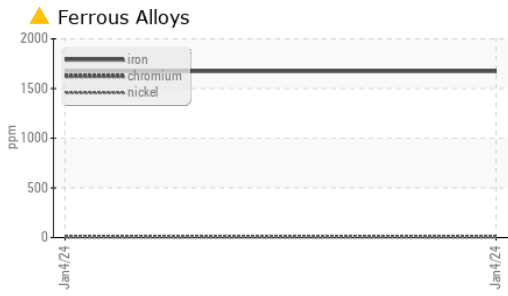
Elemental level of silicon (Si) above normal indicating ingress of seal material.

Silicon	ppm	ASTM D5185m	>75	▲ 94	---	---
Potassium	ppm	ASTM D5185m	>20	27	---	---
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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		5	---	---
Boron	ppm	ASTM D5185m		101	---	---
Barium	ppm	ASTM D5185m		39	---	---
Molybdenum	ppm	ASTM D5185m		2	---	---
Manganese	ppm	ASTM D5185m		18	---	---
Magnesium	ppm	ASTM D5185m		8	---	---
Calcium	ppm	ASTM D5185m		36	---	---
Phosphorus	ppm	ASTM D5185m		990	---	---
Zinc	ppm	ASTM D5185m		62	---	---
Sulfur	ppm	ASTM D5185m		16022	---	---
Visc @ 40°C	cSt	ASTM D445		139	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0197317 **Received** : 08 Jan 2024
Lab Number : 06054306 **Diagnosed** : 09 Jan 2024
Unique Number : 10820255 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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 GARNER, NC
 US 27529
 Contact: JUSTIN JACKSON
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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)