



Machine Id
JOHN DEERE 50G 1FF050GXVFH283239

Component
Left Final Drive

Fluid
JOHN DEERE GL-5 80W90 (1 QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0194222	JRMC393894	---
Sample Date		Client Info		16 Jan 2024	30 Nov 2018	---
Machine Age	hrs	Client Info		1355	2456	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	Not Changd	---
Filter Changed		Client Info		N/A	Not Changd	---
Sample Status				SEVERE	ABNORMAL	---

WEAR

Gear wear is indicated.

PQ		ASTM D8184	>1250	359	93	---
Iron	ppm	ASTM D5185m	>750	▲ 2322	▲ 1192	---
Chromium	ppm	ASTM D5185m	>9	▲ 31	▲ 23	---
Nickel	ppm	ASTM D5185m	>10	10	3	---
Titanium	ppm	ASTM D5185m		7	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>40	▲ 124	11	---
Lead	ppm	ASTM D5185m	>15	0	0	---
Copper	ppm	ASTM D5185m	>40	9	4	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

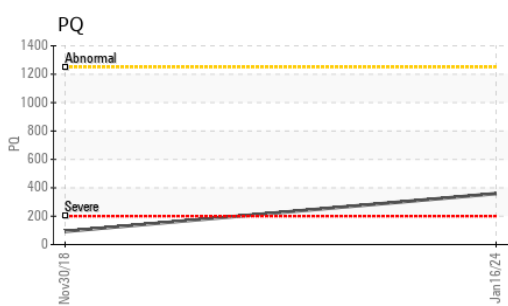
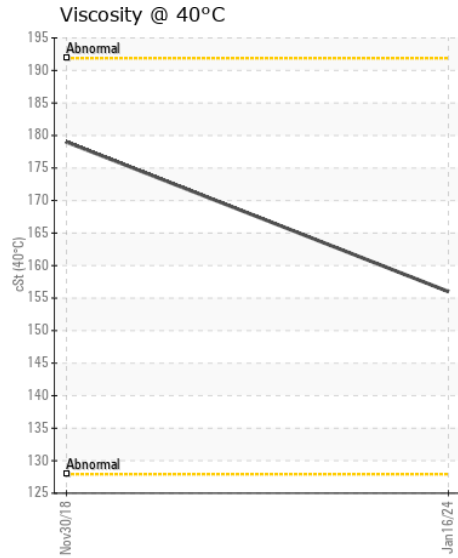
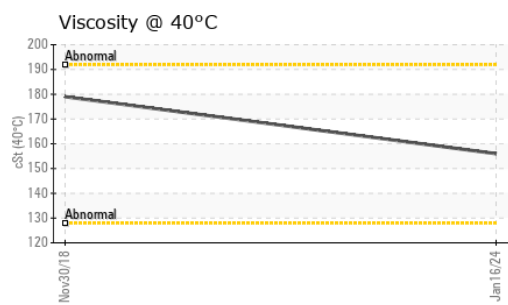
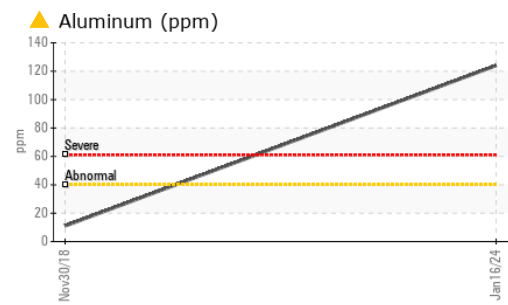
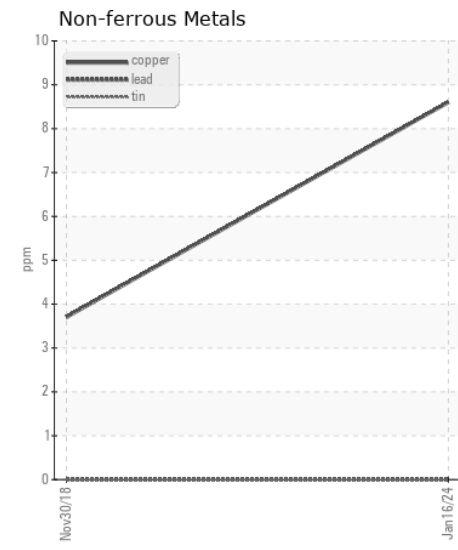
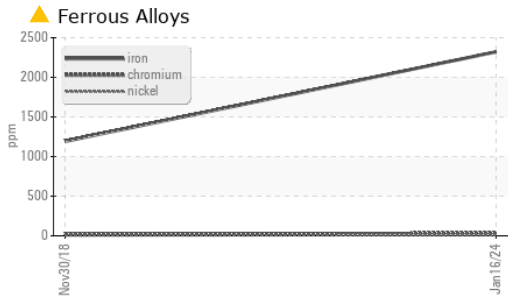
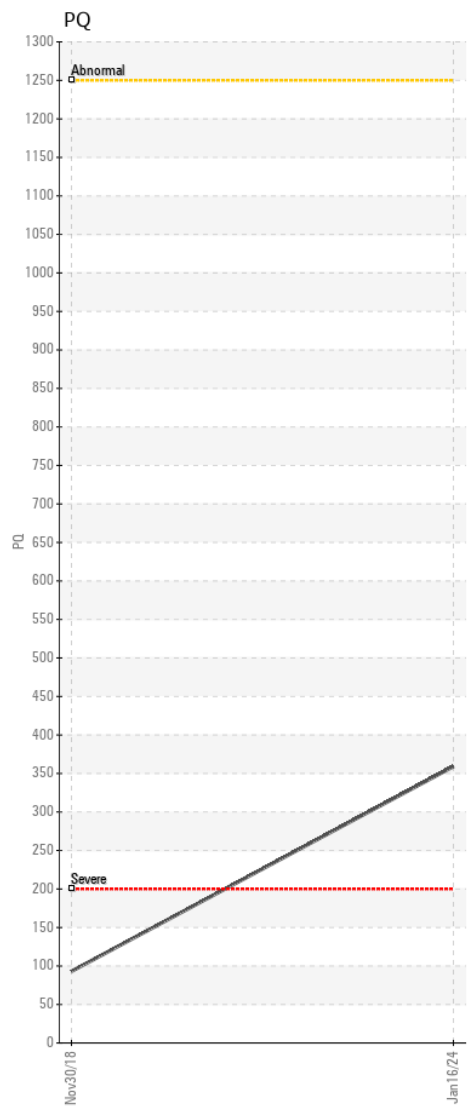
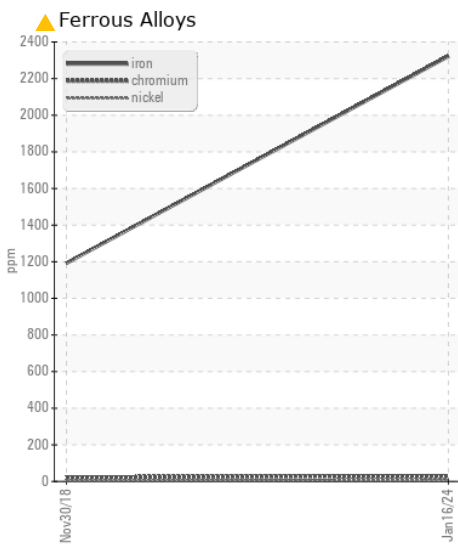
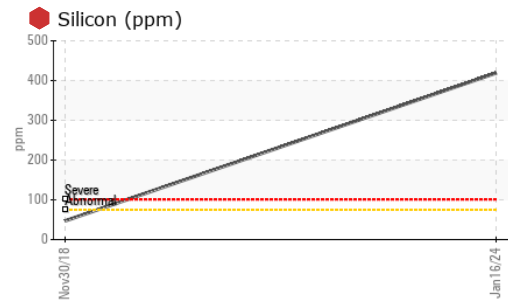
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	◆ 419	47	---
Potassium	ppm	ASTM D5185m	>20	15	3	---
Water		WC Method	>0.075	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	---

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m	>51	26	7	---
Boron	ppm	ASTM D5185m		117	27	---
Barium	ppm	ASTM D5185m		4	9	---
Molybdenum	ppm	ASTM D5185m		2	0	---
Manganese	ppm	ASTM D5185m		24	18	---
Magnesium	ppm	ASTM D5185m		16	3	---
Calcium	ppm	ASTM D5185m		34	12	---
Phosphorus	ppm	ASTM D5185m		839	305	---
Zinc	ppm	ASTM D5185m		170	233	---
Sulfur	ppm	ASTM D5185m		17888	11038	---
Visc @ 40°C	cSt	ASTM D445		156	179.0	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0194222 **Received** : 17 Jan 2024
Lab Number : 06063072 **Diagnosed** : 19 Jan 2024
Unique Number : 10834454 **Diagnostician** : Jonathan Hester
Test Package : CONST (Additional Tests: PQ)

JRE - GREENSBORO
 411 SOUTH REGIONAL ROAD
 GREENSBORO, NC
 US 27409
 Contact: JUSTIN WILLIAMS
 justin.williams@jamesriverequipment.com
 T: (336)668-2762
 F: (336)665-9556

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)