



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 50G 1FF050GXVHH287018

Component
Left Final Drive

Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0200273	---	---
Sample Date		Client Info		06 Feb 2024	---	---
Machine Age	hrs	Client Info		1587	---	---
Oil Age	hrs	Client Info		0	---	---
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	>1250	▲ 1540	---	---
Iron	ppm	ASTM D5185m	>750	● 2728	---	---
Chromium	ppm	ASTM D5185m	>9	● 54	---	---
Nickel	ppm	ASTM D5185m	>10	9	---	---
Titanium	ppm	ASTM D5185m		11	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>40	▲ 116	---	---
Lead	ppm	ASTM D5185m	>15	<1	---	---
Copper	ppm	ASTM D5185m	>40	10	---	---
Tin	ppm	ASTM D5185m	>10	0	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

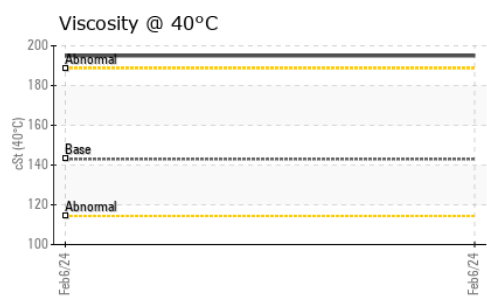
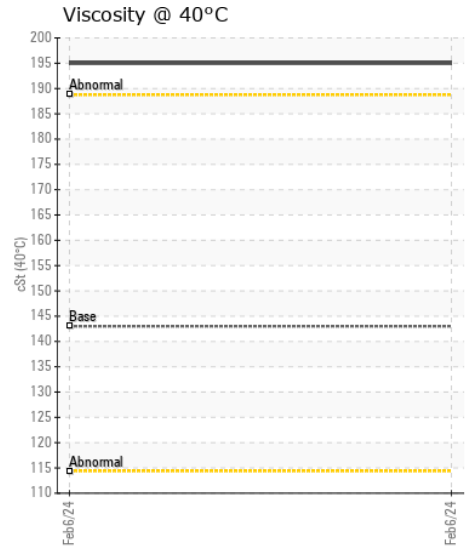
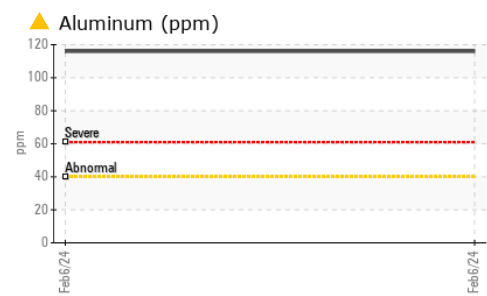
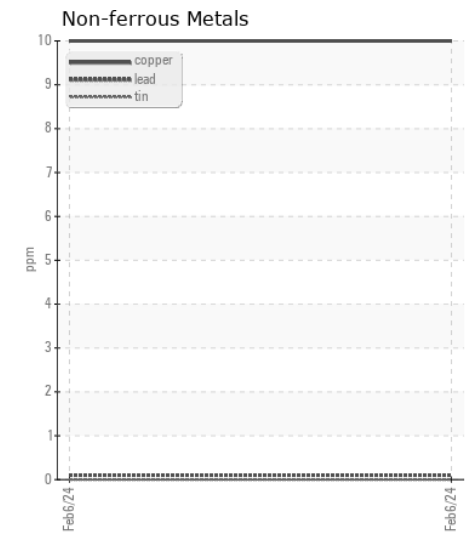
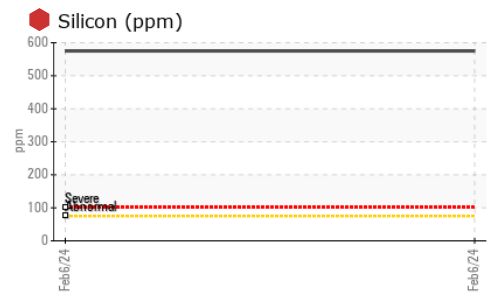
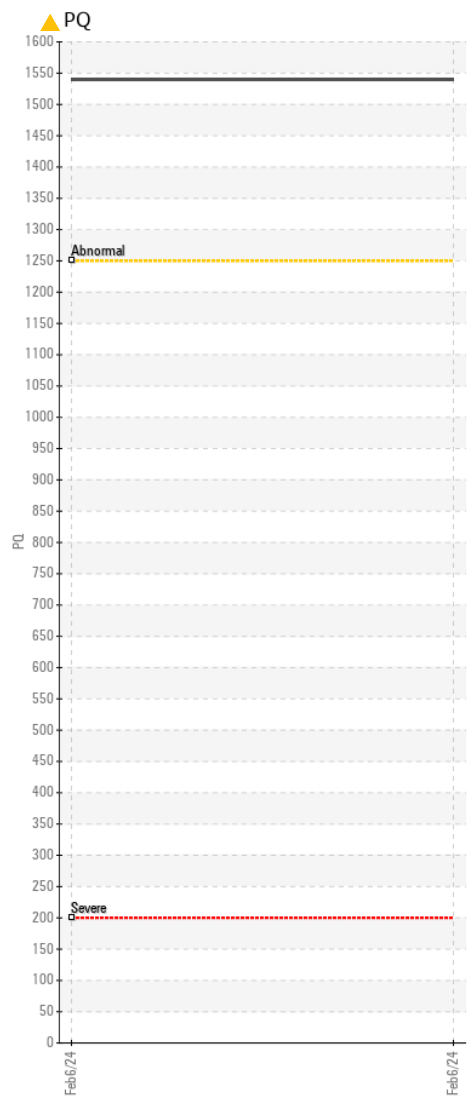
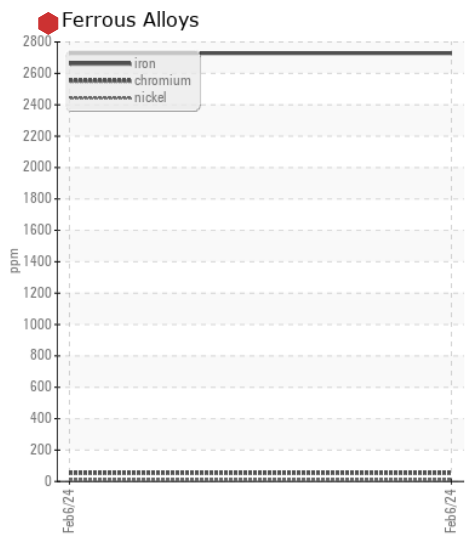
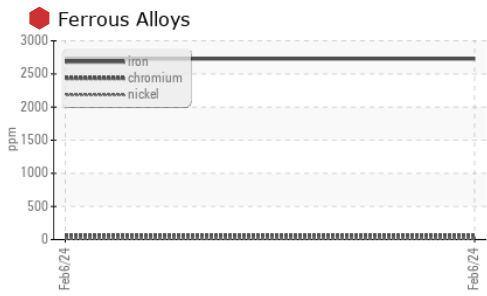
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	● 575	---	---
Potassium	ppm	ASTM D5185m	>20	39	---	---
Water		WC Method	>0.075	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	>0.075	NEG	---	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>170	11	---	---
Boron	ppm	ASTM D5185m	400	42	---	---
Barium	ppm	ASTM D5185m	200	12	---	---
Molybdenum	ppm	ASTM D5185m	12	1	---	---
Manganese	ppm	ASTM D5185m		42	---	---
Magnesium	ppm	ASTM D5185m	12	10	---	---
Calcium	ppm	ASTM D5185m	150	39	---	---
Phosphorus	ppm	ASTM D5185m	1650	436	---	---
Zinc	ppm	ASTM D5185m	125	257	---	---
Sulfur	ppm	ASTM D5185m	22500	17499	---	---
Visc @ 40°C	cSt	ASTM D445	143	195	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0200273 **Received** : 07 Feb 2024
Lab Number : 06082758 **Tested** : 08 Feb 2024
Unique Number : 10870203 **Diagnosed** : 09 Feb 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)