



WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 331G 1T0331GKTMF397161

Component
Right Final Drive

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

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0198885	JR0142041	---
Sample Date		Client Info		16 Jan 2024	06 Apr 2023	---
Machine Age	hrs	Client Info		1289	0	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	SEVERE	---

WEAR

Gear wear is indicated.

PQ		ASTM D8184	>1250	75	270	---
Iron	ppm	ASTM D5185m	>750	▲ 1561	3120	---
Chromium	ppm	ASTM D5185m	>9	▲ 17	33	---
Nickel	ppm	ASTM D5185m	>10	8	13	---
Titanium	ppm	ASTM D5185m		3	14	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>40	▲ 44	167	---
Lead	ppm	ASTM D5185m	>15	<1	<1	---
Copper	ppm	ASTM D5185m	>40	1	4	---
Tin	ppm	ASTM D5185m	>10	<1	0	---
Vanadium	ppm	ASTM D5185m		<1	1	---
White Metal	scalar	*Visual	NONE	NONE	MODER	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

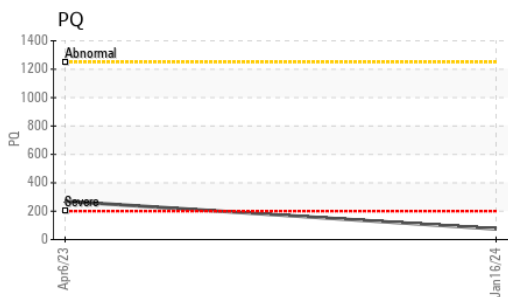
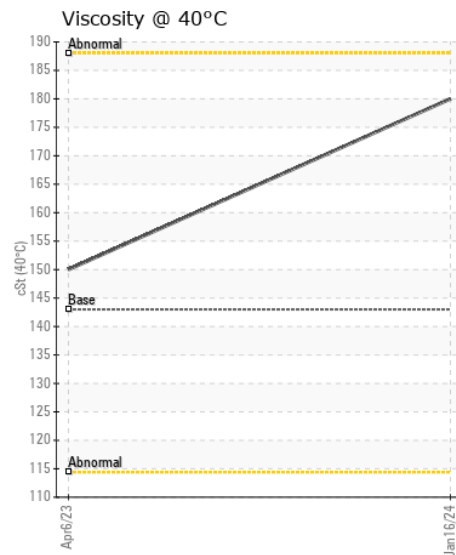
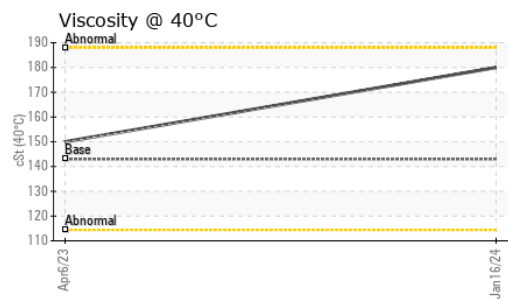
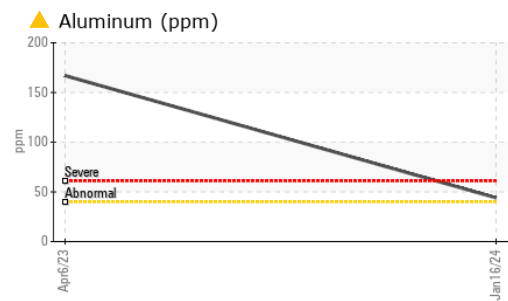
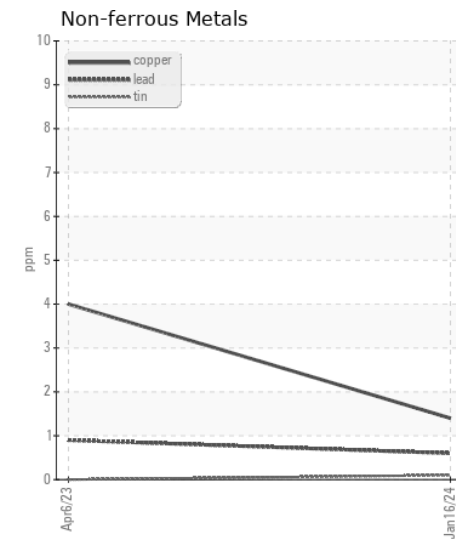
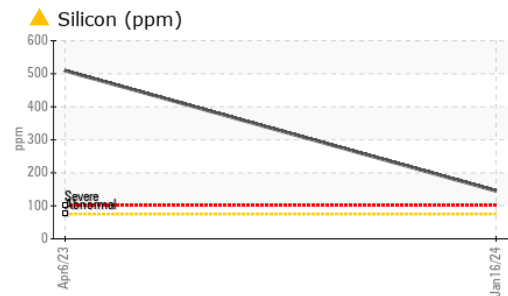
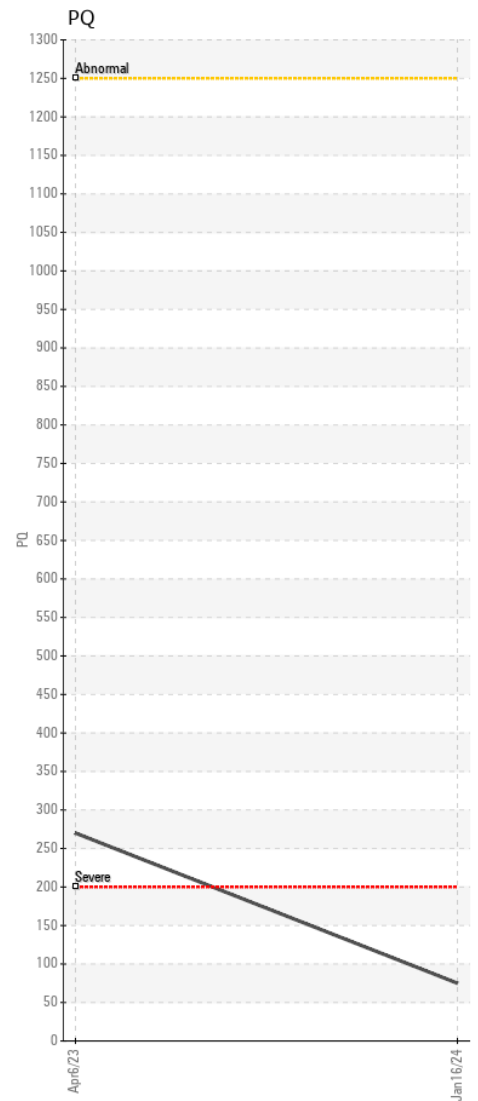
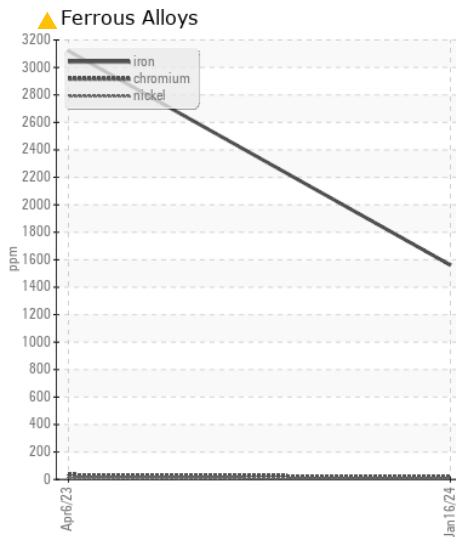
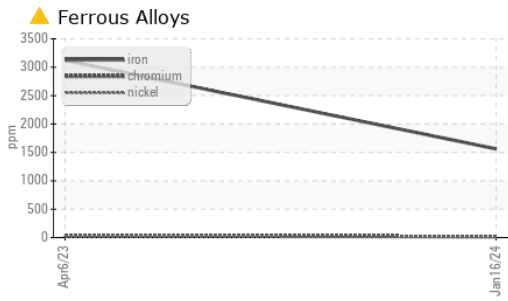
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 145	509	---
Potassium	ppm	ASTM D5185m	>20	16	51	---
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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>170	9	39	---
Boron	ppm	ASTM D5185m	400	111	87	---
Barium	ppm	ASTM D5185m	200	26	81	---
Molybdenum	ppm	ASTM D5185m	12	4	4	---
Manganese	ppm	ASTM D5185m		15	32	---
Magnesium	ppm	ASTM D5185m	12	20	36	---
Calcium	ppm	ASTM D5185m	150	105	103	---
Phosphorus	ppm	ASTM D5185m	1650	1946	860	---
Zinc	ppm	ASTM D5185m	125	48	72	---
Sulfur	ppm	ASTM D5185m	22500	26370	26930	---
Visc @ 40°C	cSt	ASTM D445	143	180	150	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0198885 **Received** : 18 Jan 2024
Lab Number : 06064525 **Diagnosed** : 21 Jan 2024
Unique Number : 10835907 **Diagnostician** : Don Baldrige
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)