



WEAR	SEVERE
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 331G 1T0331GKLN424421
 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.

WEAR

Gear wear is indicated.

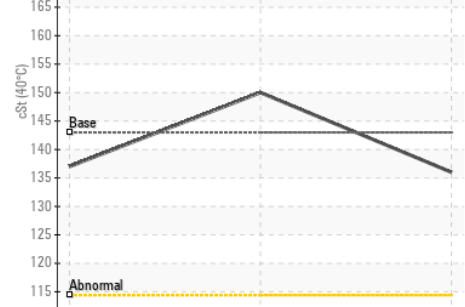
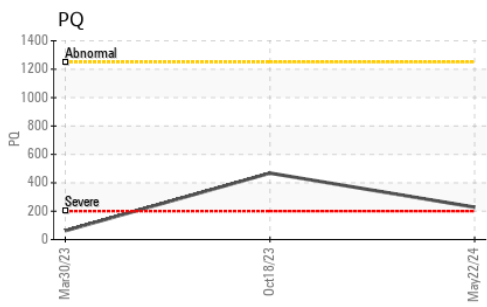
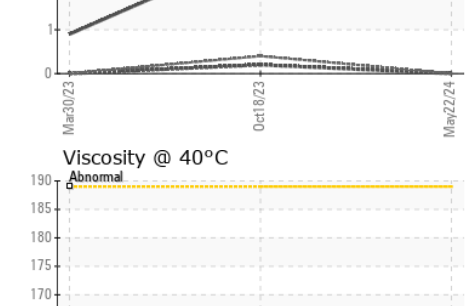
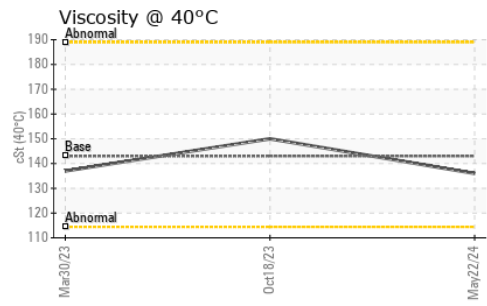
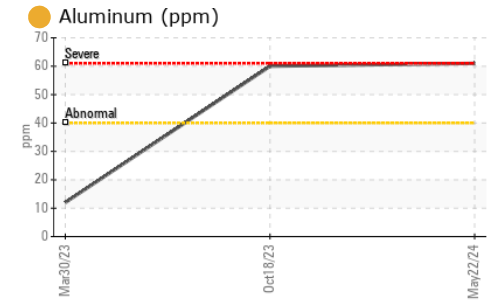
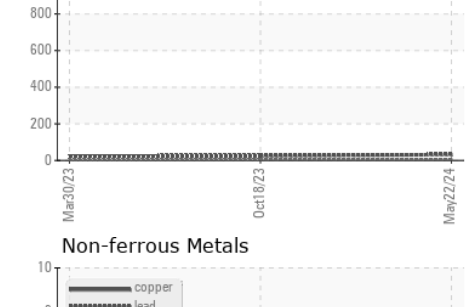
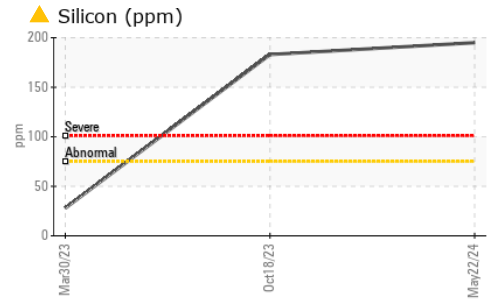
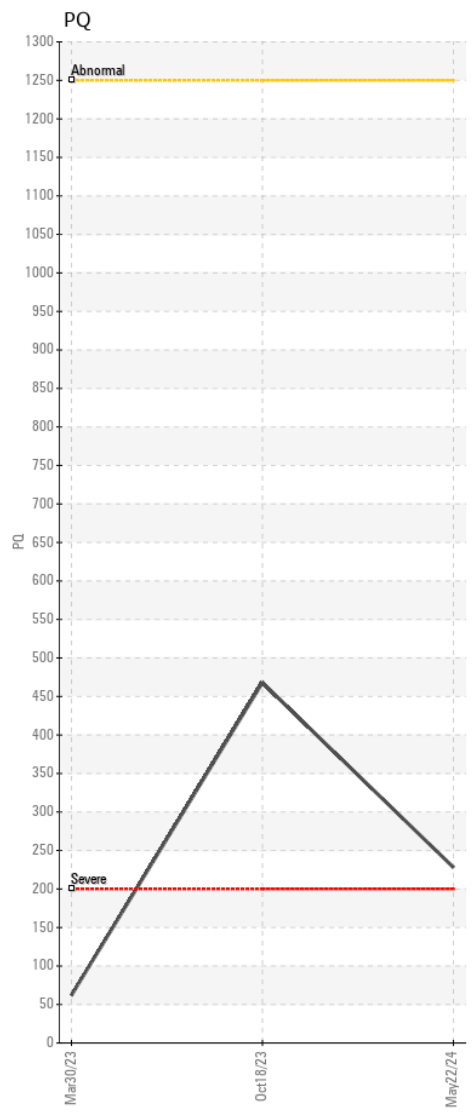
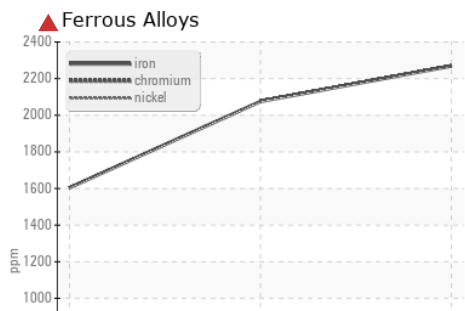
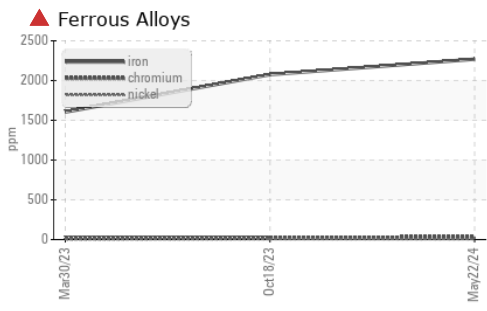
CONTAMINATION

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

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0215657	JR0188078	JR0162120
Sample Date		Client Info		22 May 2024	18 Oct 2023	30 Mar 2023
Machine Age	hrs	Client Info		1581	1100	562
Oil Age	hrs	Client Info		481	1100	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	SEVERE
PQ		ASTM D8184	>1250	228	468	62
Iron	ppm	ASTM D5185m	>750	▲ 2269	▲ 2075	▲ 1604
Chromium	ppm	ASTM D5185m	>9	▲ 32	▲ 25	▲ 24
Nickel	ppm	ASTM D5185m	>10	5	6	2
Titanium	ppm	ASTM D5185m		8	7	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	● 61	● 60	12
Lead	ppm	ASTM D5185m	>15	0	<1	0
Copper	ppm	ASTM D5185m	>40	2	3	<1
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	▲ MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 195	▲ 183	28
Potassium	ppm	ASTM D5185m	>20	31	30	40
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>170	5	7	13
Boron	ppm	ASTM D5185m	400	30	24	64
Barium	ppm	ASTM D5185m	200	19	31	79
Molybdenum	ppm	ASTM D5185m	12	3	2	2
Manganese	ppm	ASTM D5185m		19	19	17
Magnesium	ppm	ASTM D5185m	12	4	3	13
Calcium	ppm	ASTM D5185m	150	22	23	52
Phosphorus	ppm	ASTM D5185m	1650	434	460	875
Zinc	ppm	ASTM D5185m	125	30	44	73
Sulfur	ppm	ASTM D5185m	22500	21589	20506	25056
Visc @ 40°C	cSt	ASTM D445	143	136	150	137



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0215657 **Received** : 29 May 2024
Lab Number : 06194279 **Tested** : 30 May 2024
Unique Number : 11056402 **Diagnosed** : 31 May 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

CARLTON'S BACKHOE
 9550 STATESVILLE ROAD
 CHARLOTTE, NC
 US 28269
 Contact: LEO

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)

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 F: