



WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
SEVERE
NORMAL

Machine Id
JOHN DEERE 250G 1FF250GXCMF611736

Component
Right 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 recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal for time on oil.

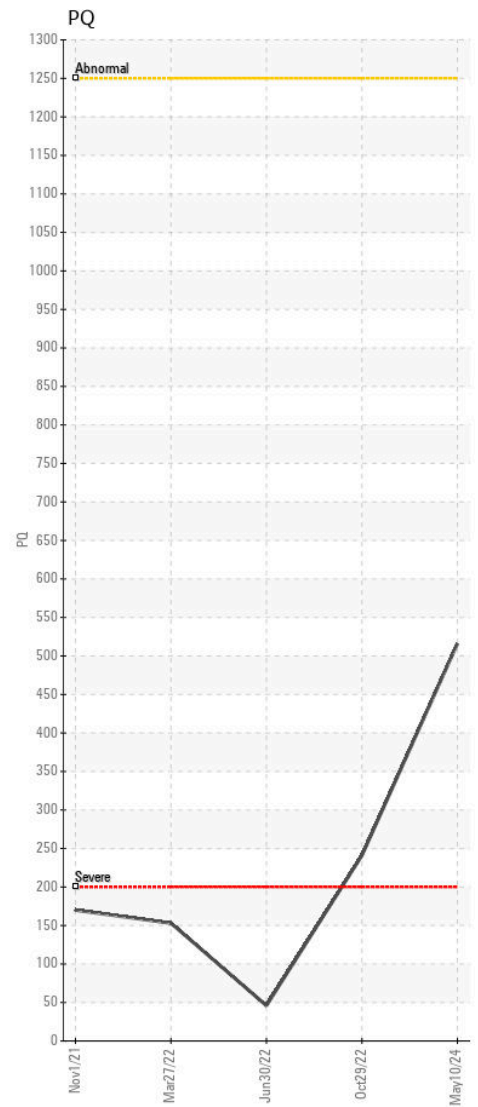
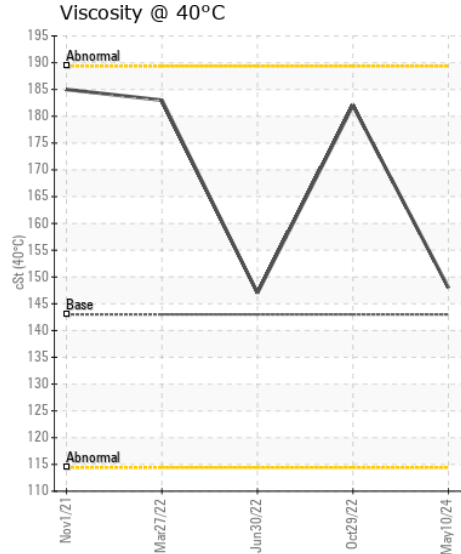
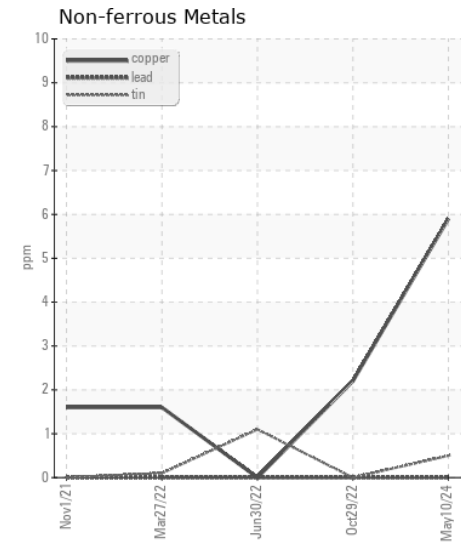
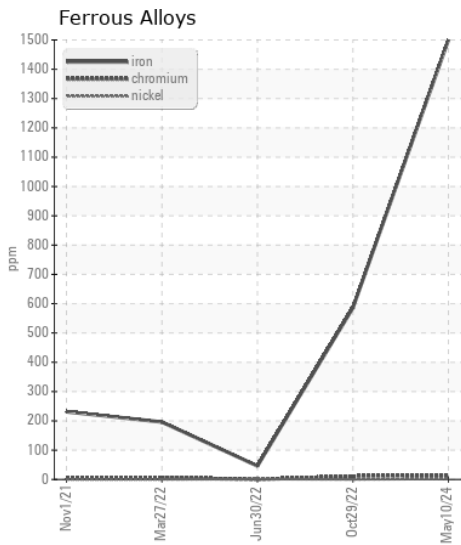
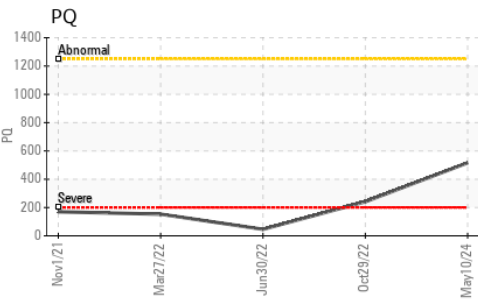
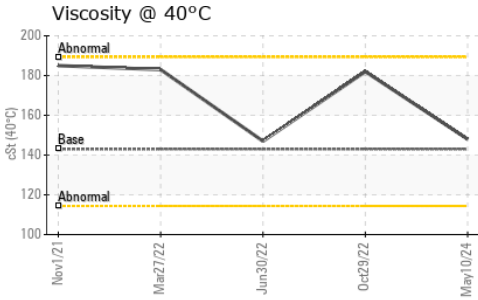
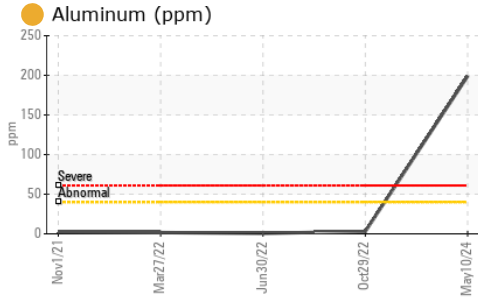
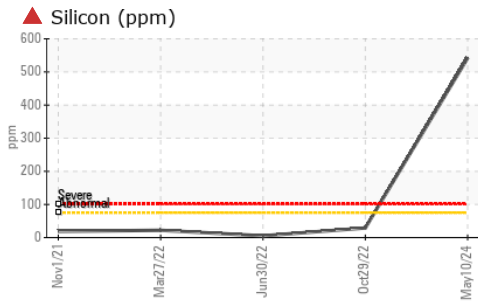
CONTAMINATION

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		JR0215471	JR05679428	JR0134475
Sample Date		Client Info		10 May 2024	29 Oct 2022	30 Jun 2022
Machine Age	hrs	Client Info		3707	1945	1441
Oil Age	hrs	Client Info		1762	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	NORMAL
PQ		ASTM D8184	>1250	516	241	46
Iron	ppm	ASTM D5185m	>750	1500	▲ 586	46
Chromium	ppm	ASTM D5185m	>9	14	▲ 11	<1
Nickel	ppm	ASTM D5185m	>10	1	0	<1
Titanium	ppm	ASTM D5185m		14	<1	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>40	● 199	3	<1
Lead	ppm	ASTM D5185m	>15	0	0	0
Copper	ppm	ASTM D5185m	>40	6	2	0
Tin	ppm	ASTM D5185m	>10	<1	0	1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	▲ 542	29	5
Potassium	ppm	ASTM D5185m	>20	12	0	0
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	17	<1	<1
Boron	ppm	ASTM D5185m	400	10	57	22
Barium	ppm	ASTM D5185m	200	0	7	0
Molybdenum	ppm	ASTM D5185m	12	0	1	<1
Manganese	ppm	ASTM D5185m		16	15	<1
Magnesium	ppm	ASTM D5185m	12	30	6	0
Calcium	ppm	ASTM D5185m	150	49	19	10
Phosphorus	ppm	ASTM D5185m	1650	343	509	346
Zinc	ppm	ASTM D5185m	125	0	38	2
Sulfur	ppm	ASTM D5185m	22500	22064	17388	19575
Visc @ 40°C	cSt	ASTM D445	143	148	182	147



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0215471 **Received** : 13 May 2024
Lab Number : 06177475 **Tested** : 14 May 2024
Unique Number : 11023528 **Diagnosed** : 15 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)

T: (704)547-0211

F: