



WEAR	ATTENTION
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 250G 1FF250GXCMF611736

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. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0215470	JR05679426	JR0134474
Sample Date		Client Info		10 May 2024	29 Oct 2022	30 Jun 2022
Machine Age	hrs	Client Info		3707	1946	1441
Oil Age	hrs	Client Info		2238	1946	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal for time on oil.

PQ		ASTM D8184	>1250	425	275	42
Iron	ppm	ASTM D5185m	>750	742	191	46
Chromium	ppm	ASTM D5185m	>9	9	6	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	<1
Titanium	ppm	ASTM D5185m		8	<1	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>40	121	2	<1
Lead	ppm	ASTM D5185m	>15	0	0	0
Copper	ppm	ASTM D5185m	>40	4	1	0
Tin	ppm	ASTM D5185m	>10	<1	<1	1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

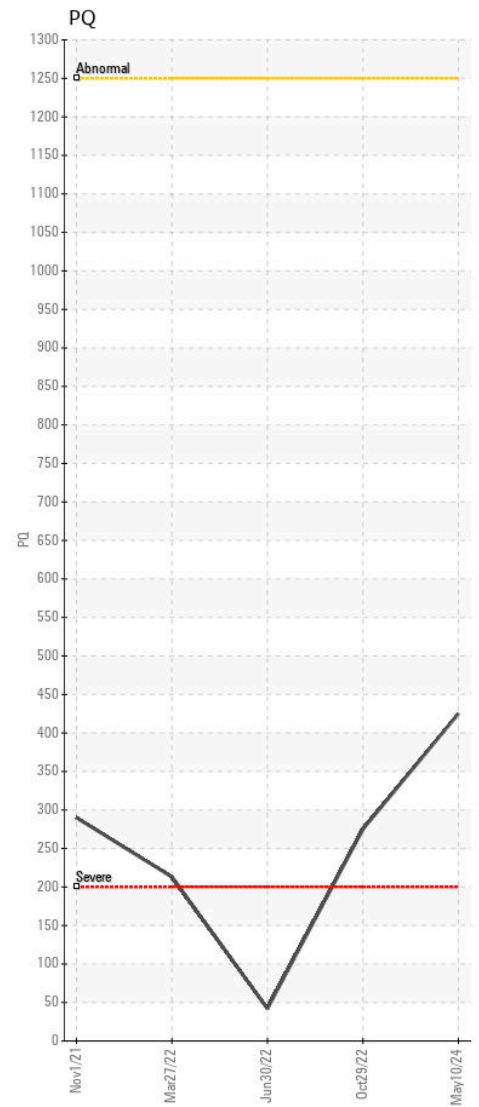
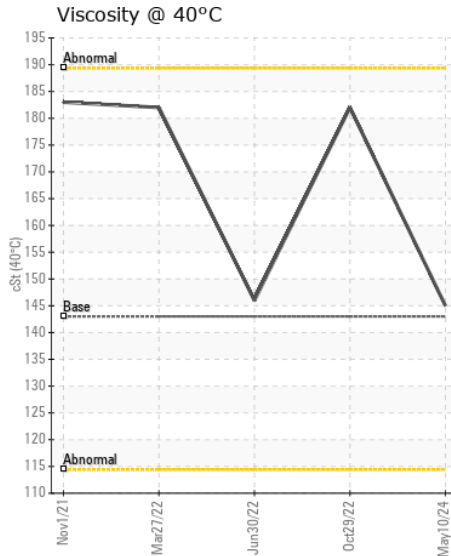
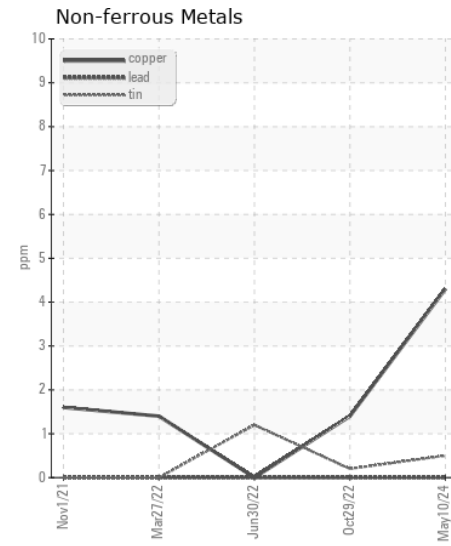
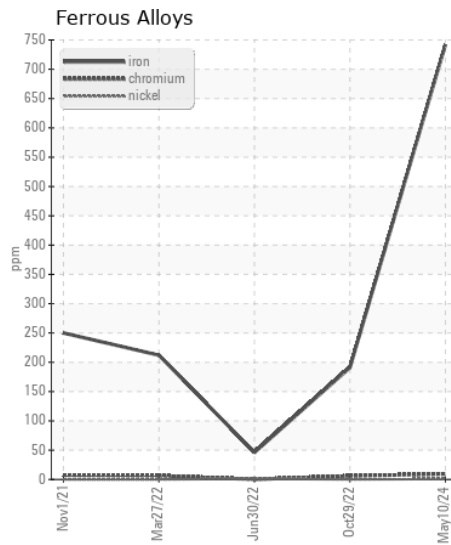
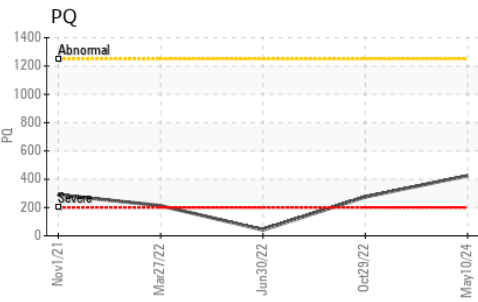
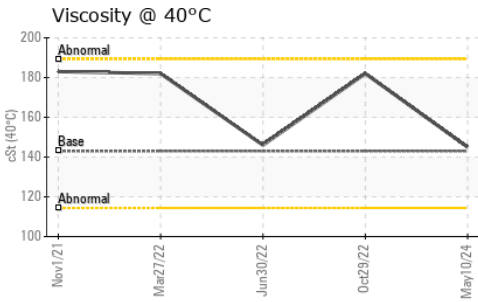
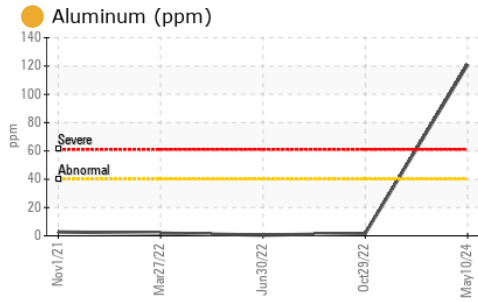
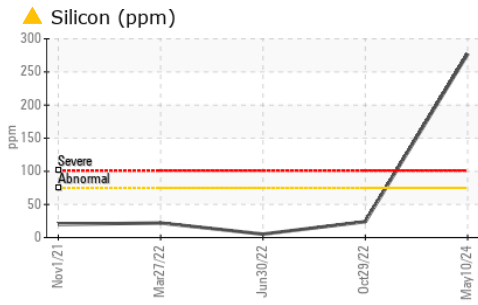
Moderate concentration of visible dirt/debris present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	277	24	5
Potassium	ppm	ASTM D5185m	>20	4	0	0
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	MODER	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

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>170	8	0	<1
Boron	ppm	ASTM D5185m	400	11	65	30
Barium	ppm	ASTM D5185m	200	0	6	0
Molybdenum	ppm	ASTM D5185m	12	0	<1	7
Manganese	ppm	ASTM D5185m		11	7	<1
Magnesium	ppm	ASTM D5185m	12	15	3	32
Calcium	ppm	ASTM D5185m	150	30	29	43
Phosphorus	ppm	ASTM D5185m	1650	375	510	339
Zinc	ppm	ASTM D5185m	125	0	37	22
Sulfur	ppm	ASTM D5185m	22500	21627	17219	19876
Visc @ 40°C	cSt	ASTM D445	143	145	182	146



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0215470 **Received** : 13 May 2024
Lab Number : 06177470 **Tested** : 14 May 2024
Unique Number : 11023523 **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: