

## Machine Id **JOHN DEERE 210G 1FF210GXEJF526708** onen

**Diesel Engine** 

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (20 QTS)

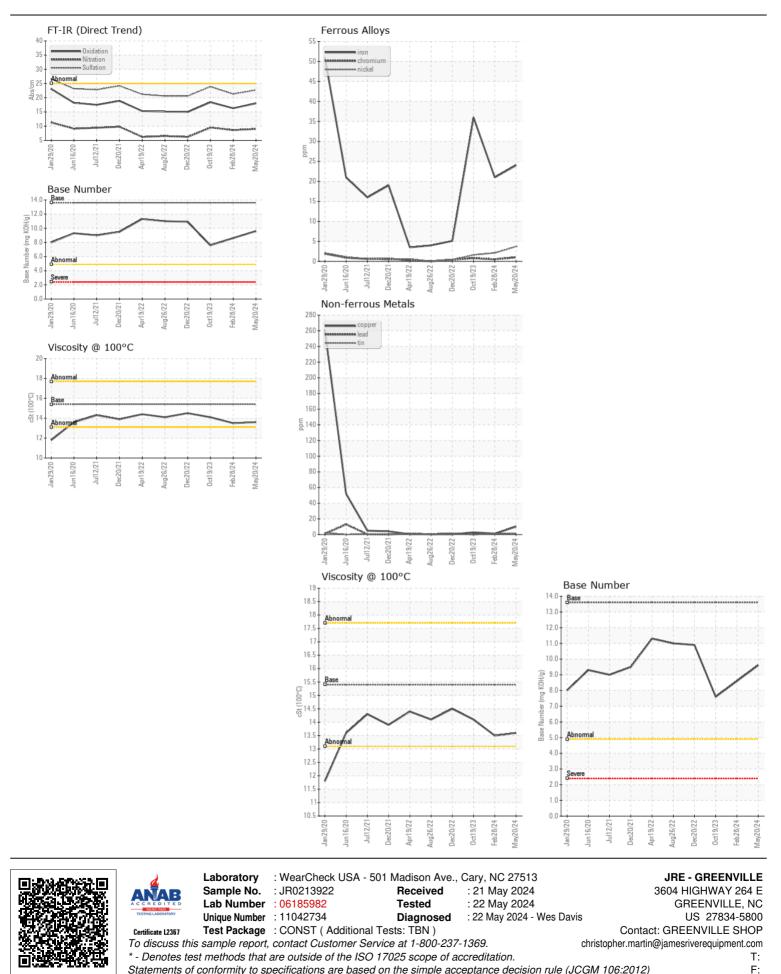
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0213922	JR0200610	JR0186749
	Sample Date		Client Info		20 May 2024	28 Feb 2024	19 Oct 2023
	Machine Age	hrs	Client Info		4952	4827	4568
	Oil Age	hrs	Client Info		125	259	558
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	24	21	36
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	1	<1	<1
	Nickel	ppm	ASTM D5185m		4	2	2
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	1	0	0
	Aluminum	ppm	ASTM D5185m		6	4	5
	Lead	ppm	ASTM D5185m		<1	1	<1
	Copper	ppm	ASTM D5185m		10	1	3
	Tin	ppm	ASTM D5185m		1	<1	0
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<u>~22</u>	10	5	8
OONTAMINATION	Potassium	ppm	ASTM D5185m		3	1	4
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	/ 0.121	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.3	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	9.0	8.6	9.5
	Sulfation	Abs/.1mm	*ASTM D7415		22.7	21.3	23.9
	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		*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	4	5
	Boron	ppm	ASTM D5185m		297	213	142
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		252	231	261
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m		803	796	884
	Calcium	ppm	ASTM D5185m		1474	1365	1628
	Phosphorus	ppm	ASTM D5185m		964	881	886
	Zinc	ppm	ASTM D5185m		1075	1000	1143
	Sulfur	ppm	ASTM D5185m		3519	2818	2910
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.0	16.3	18.4
	Base Number (BN)				9.6	8.6	7.6
			107110115				

Visc @ 100°C cSt ASTM D445 15.4

14.1

13.5

13.6



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)