

Area

## NORMAL WEAR NORMAL CONTAMINATION **FLUID CONDITION** NORMAL



## JOHN DEERE 210G 1FF210GXEJF526174

**Diesel Engine** 

[W66274]

## JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (6 GAL)

		····	·····				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. ( Customer Sample Comment: W66274 )	Sample Number		Client Info		JR0205505	JR0188953	JR0150192
	Sample Date		Client Info		17 Apr 2024	04 Dec 2023	08 Nov 2022
	Machine Age	hrs	Client Info		2970	2574	2096
	Oil Age	hrs	Client Info		396	478	500
	Filter Age	hrs	Client Info		0	0	500
	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	18	31	26
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	Nickel	ppm	ASTM D5185m		0	1	<1
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		4	5	4
	Lead	ppm	ASTM D5185m		<1	<1	<1
	Copper	ppm	ASTM D5185m		1	3	4
	Tin	ppm	ASTM D5185m		<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon		ASTM D5185m	<u></u>	7	10	8
SONTAMINATION	Potassium	ppm ppm	ASTM D5185m		7 <1	4	0
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	. ?	0.4	0.5	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	8.8	9.9	10.7
	Sulfation	Abs/.1mm	*ASTM D7024		22.9	24.6	25.4
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	3	1	3
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		197	146	155
	Barium	ppm	ASTM D5185m		<1	11	0
	Molybdenum	ppm	ASTM D5185m		252	249	244
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		832	792	777
	Calcium	ppm	ASTM D5185m		1479	1443	1422
	Phosphorus	ppm	ASTM D5185m		901	838	833
	Zinc	ppm	ASTM D5185m		1017	1048	1059
	Sulfur	ppm	ASTM D5185m		3276	3289	3095
	Oxidation	Abs/.1mm	*ASTM D7414		17.2	18.9	19.4
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.6	7.8	9.6
		- 07	AOTA D 44-			40.0	

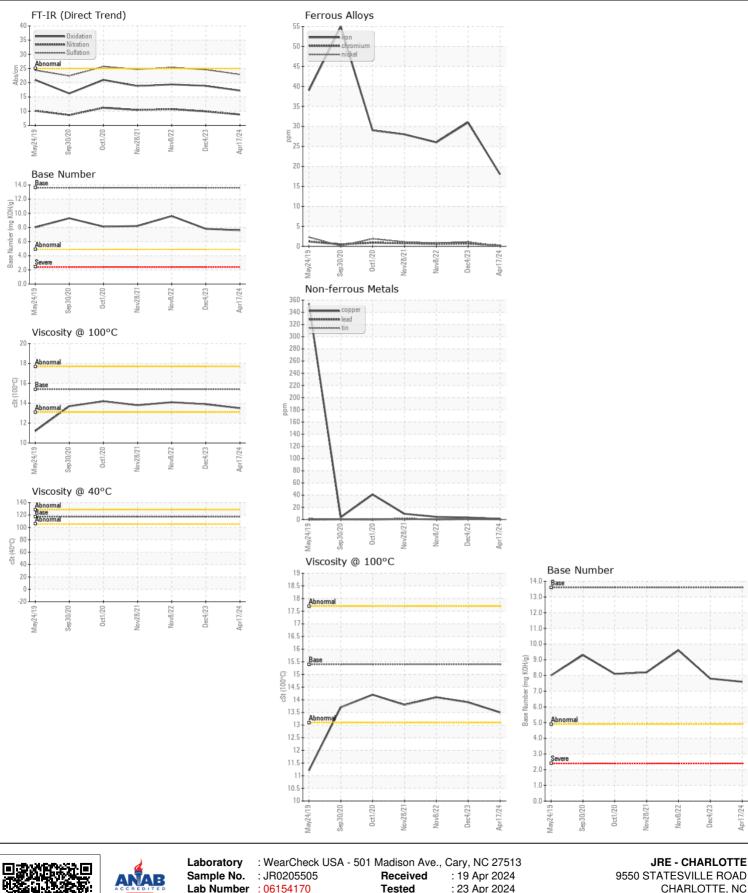
Visc @ 100°C cSt

ASTM D445 15.4

13.9

14.1

13.5



Lab Number : 06154170 Tested : 23 Apr 2024 CHARLOTTE, NC : 23 Apr 2024 - Jonathan Hester Unique Number : 10989593 Diagnosed US 28269 Test Package : CONST (Additional Tests: KV40, PQ, TBN) Contact: CHARLOTTE SHOP Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. myoung@jamesriverequipment.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (704)597-0211 F: (704)596-6198 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: Mike Young - CHARLOTTE SHOP Page 2 of 2