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

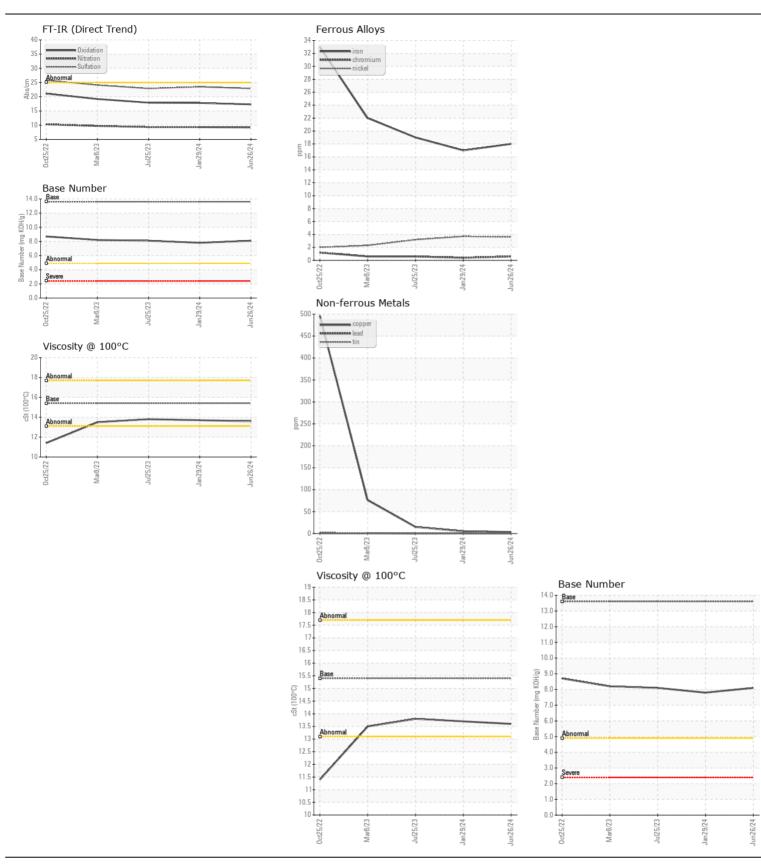


[16W16482]

## **JOHN DEERE 210G 1FF210GXENF530117**

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TECOMMENDATION	Sample Number	OOW	Client Info	LIIIIU/ADII	JR0217387		JR0173412
Resample at the next service interval to monitor. ( Customer Sample Comment: 16W16482 )	Sample Date		Client Info		26 Jun 2024	29 Jan 2024	25 Jul 2023
	Machine Age	hrs	Client Info		2479	2061	1470
	Oil Age	hrs	Client Info		418	591	432
	Filter Age	hrs	Client Info		418	591	432
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAD			AOTM DEGOE			47	40
WEAR	Iron	ppm	ASTM D5185m	-	18	17	19
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	4	4	3
	Titanium	ppm	ASTM D5185m	0	<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		7	5	3
	Lead	ppm	ASTM D5185m ASTM D5185m		<1	<1	0
	Copper Tin	ppm	ASTM D5185m		4	5 <1	15 <1
	Vanadium	ppm		>4	<1 <1	<1	0
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
		Scalai	Visuai	INOINL	NONE	INOINL	NONL
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	8	6	6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	<1	<1
	Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.5	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	9.2	9.3	9.3
	Sulfation	Abs/.1mm	*ASTM D7415		22.9	23.5	22.9
	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	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	6	2	4
	Boron	ppm	ASTM D5185m		159	146	150
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		<1	1	0
	Molybdenum	ppm	ASTM D5185m		249	231	243
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		889	818	948
	Calcium	ppm	ASTM D5185m		1546	1301	1558
	Phosphorus	ppm	ASTM D5185m		982	856	990
	Zinc	ppm	ASTM D5185m		1209	1069	1248
	Sulfur	ppm	ASTM D5185m		3321	2654	3741
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	17.8	17.9
	Base Number (BN)	mg KOH/g			8.1	7.8	8.1
	Visc @ 100°C	cSt	ASTM D445	15.4	13.6	13.7	13.8







Certificate L2367

Laboratory Sample No.

Lab Number : 06222022

: JR0217387 Unique Number : 11100219

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** 

: 27 Jun 2024 Diagnosed : 28 Jun 2024 - Don Baldridge Test Package : CONST ( Additional Tests: TBN )

: 27 Jun 2024

JRE - CASTLE HAYNE 113 CROWATAN ROAD CASTLE HAYNE, NC US 28429-5819

Contact: WILMINGTON SHOP

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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\* - 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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