

Machine Id JOHN DEERE 210G 1

JOHN DEERE 210G 1FF210GXCMF529131

Diesel Engine

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

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

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		1 = 4

All component wear rates are normal.

RECOMMENDATION

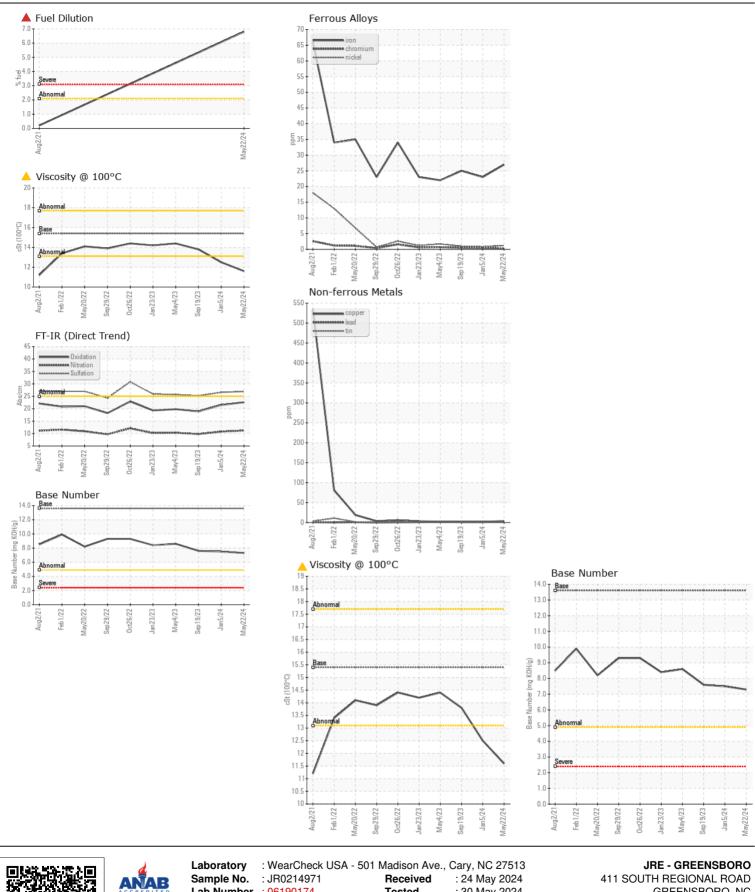
CONTAMINATION

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

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The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0214971	JR0188513	JR0188685
Sample Date		Client Info		22 May 2024	05 Jan 2024	19 Sep 2023
Machine Age	hrs	Client Info		4264	4264	3648
Oil Age	hrs	Client Info		4264	616	657
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				SEVERE	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>51	27	23	25
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	1	<1	1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	7	4	2
Lead	ppm	ASTM D5185m	>26	2	<1	<1
Copper	ppm	ASTM D5185m	>26	4	2	2
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
0'''				40		4.0
Silicon	ppm	ASTM D5185m	>22	10 2	9	10 3
Potassium Fuel	ppm	ASTM D5185m	>20	_	<1.0	3 <1.0
Water	%	ASTM D3524 WC Method	>2.1 >0.21	▲ 6.8 NEG		<1.0 NEG
Glycol		WC Method	>0.21	NEG	NEG NEG	NEG
Soot %	%	*ASTM D7844	>3	1.2	1.2	1.2
Nitration	70 Abs/cm	*ASTM D7644	>3 >20	1.2	1.2	9.8
Sulfation	Abs/.1mm	*ASTM D7624	>20	26.9	26.6	9.8 25.2
Silt	scalar		NONE	26.9 NONE	20.0 NONE	NONE
Debris	scalar	*Visual *Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar		NONE	NONE	NONE	NONE
Appearance	scalar	*Visual *Visual	NORML	NORML	NORML	NORM
Odor	scalar	*Visual	NORML	NORML	NORML	NORM
Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>31	4	3	4
Boron	ppm	ASTM D5185m		66	61	111
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		245	232	262
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		849	751	918
Calcium	ppm	ASTM D5185m		1387	1299	1628
Phosphorus	ppm	ASTM D5185m		843	833	896
Zinc	ppm	ASTM D5185m		1064	1009	1134
Sulfur	ppm	ASTM D5185m	05	3023	2507	3305
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.6	21.5	18.9
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.3	7.5	7.6
Visc @ 100°C	cSt	ASTM D445	15.4	11.6	12.5	13.8



: 30 May 2024 Lab Number : 06190174 Tested GREENSBORO, NC : 30 May 2024 - Wes Davis US 27409 Unique Number : 11046926 Diagnosed Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: NICK GALLAHER Certificate L2367 NGALLAHER@JRENET.COM 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. T: (336)668-2762 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (336)665-9556