

## Machine Id JOHN DEERE 30210 Component **Diesel Engine** DIESEL ENGINE OIL SAE 15W40 (10 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Description of the most second second to mention Discussion of the	Sample Number		Client Info		WC0913631	WC0857115	WC0810120
Resample at the next service interval to monitor. Please specify the	Sample Date		Client Info		17 Apr 2024	19 Dec 2023	31 May 2023
brand, type, and viscosity of the oil on your next sample.	Machine Age	hrs	Client Info		4323	4114	3883
	Oil Age	hrs	Client Info		250	2000	250
	Filter Age	hrs	Client Info		250	2000	250
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m		7	4	8
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	0	<1
	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>31	2	2	4
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		2	<1	<1
	Tin	ppm	ASTM D5185m	>4	<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<u>_</u> 22	11	10	13
OONTAMINATION	Potassium	ppm	ASTM D5185m		<1	0	3
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method	>2.1	<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.LT	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	<u>\</u> 3	0.2	0.1	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	6.1	7.7	9.0
	Sulfation	Abs/.1mm	*ASTM D7415		20.0	19.8	21.5
	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	>158	2	3	1
The DN second for the the table of the table of the balance for the table of ta	Boron	ppm	ASTM D5185m	250	455	405	270
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		2	<1	6
	Molybdenum	ppm	ASTM D5185m	100	83	97	221
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	401	408	700
	Calcium	ppm	ASTM D5185m	3000	1415	1336	1235
	Phosphorus	ppm	ASTM D5185m	1150	1042	1036	767
	Zinc	ppm	ASTM D5185m	1350	1224	1198	905
	Sulfur	ppm	ASTM D5185m	4250	3680	3039	2838
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	15.2	17.1
		L/OL/	AOTHERACC	o =	-		0.0

5.9

12.9

8.8

13.5

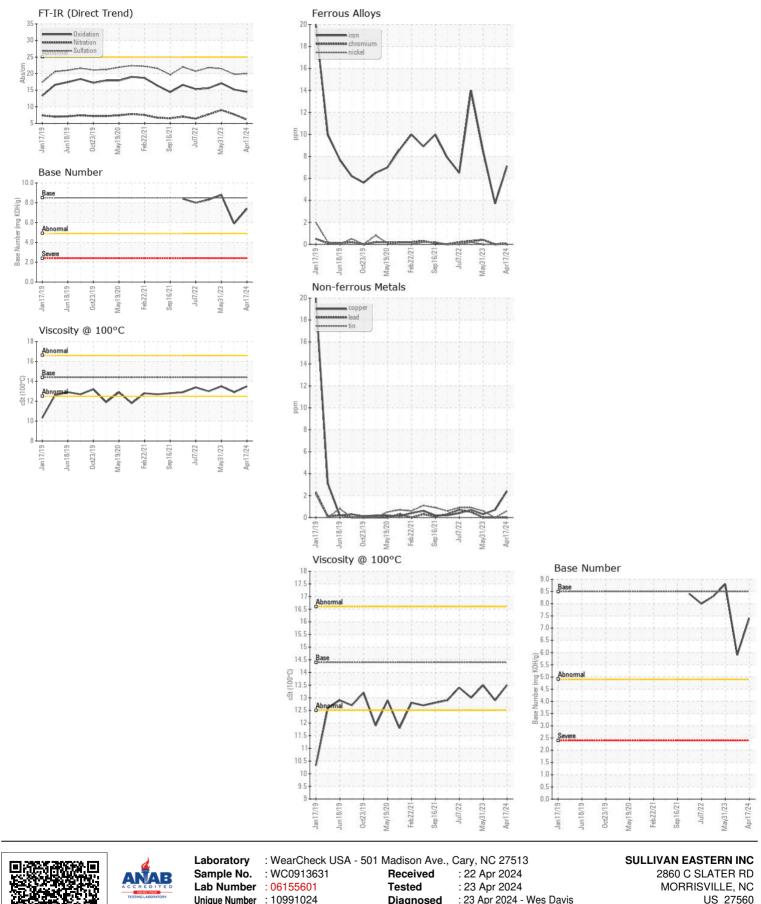
7.4

13.5

ASTM D445 14.4

Base Number (BN) mg KOH/g ASTM D2896 8.5

Visc @ 100°C cSt



 Unique Number
 : 10991024
 Diagnosed
 : 23 Apr 2024 - Wes Davis
 US 27560

 Certificate 12367
 Test Package
 : CONST (Additional Tests: TBN)
 Contact: SCOTT SULLIVAN

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

 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 T: (919)484-8993

 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)
 F: (919)484-2136

Contact/Location: SCOTT SULLIVAN - MSCDUR Page 2 of 2