

Area

## NORMAL WEAR NORMAL CONTAMINATION FLUID CONDITION NORMAL



## [16W16100] JOHN DEERE 210G 1FF210GXHNF529953

Diesel Engine

## JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (23 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
<b>HECOMMENDATION</b>	Sample Number	UOIVI	Client Info	LIIIII/ADII	JR0207053	JR0196576	JR017391
Resample at the next service interval to monitor. ( Customer Sample Comment: 16W16100 )	Sample Date		Client Info		22 Apr 2024	05 Dec 2023	26 Jun 202
	Machine Age	hrs	Client Info		1960	1482	1009
	Oil Age	hrs	Client Info		478	473	407
	Filter Age	hrs	Client Info		478	473	407
	Oil Changed	1110	Client Info		Changed	Changed	Changeo
	Filter Changed		Client Info		Changed	Changed	Changeo
	Sample Status				NORMAL	NORMAL	NORMA
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>51	26	27	31
	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	5	5	6
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	5	3	<1
	Lead	ppm	ASTM D5185m	>26	0	<1	0
	Copper	ppm	ASTM D5185m	>26	5	8	18
	Tin	ppm	ASTM D5185m	>4	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NON
CONTAMINATION					•		
	Silicon	ppm	ASTM D5185m		8	8	8
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		1	<1	3
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.6	0.7	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	9.7	9.5	9.4
	Sulfation	Abs/.1mm	*ASTM D7415		24.4	24.1	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	3	0
	Boron	ppm	ASTM D5185m		164	155	192
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		265	259	277
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m		867	914	806
	Calcium	ppm	ASTM D5185m		1476	1553	1487
	Phosphorus	ppm	ASTM D5185m		938	945	893
	Zinc	ppm	ASTM D5185m		1122	1147	1062
	Sulfur	ppm	ASTM D5185m		3309	3015	3046
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.8	18.6	19.2
	Base Number (BN)		ASTM D2896		8.3	8.0	8.2
		ing itoniy	10TH D2000	10.0	10.7	0.0	10.5

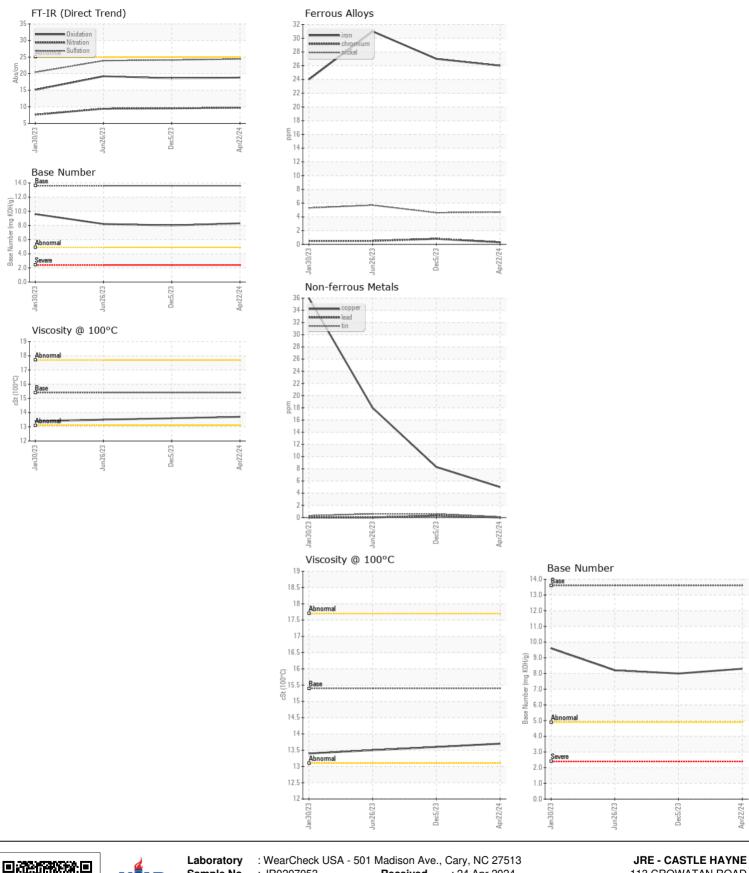
Visc @ 100°C cSt

ASTM D445 15.4

13.7

13.5

13.6



Sample No. : JR0207053 Received 113 CROWATAN ROAD : 24 Apr 2024 Lab Number : 06158846 Tested CASTLE HAYNE, NC : 25 Apr 2024 Unique Number : 10994269 Diagnosed : 26 Apr 2024 - Jonathan Hester US 28429-5819 Test Package : CONST (Additional Tests: TBN) Contact: WILMINGTON SHOP Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. todd.simmons@jamesriverequipment.com;canastasio@wearcheck.com;canastasio@we \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (910)675-9211 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: