

JOHN DEERE 5210 LV5210S223978

Component Diesel Engine

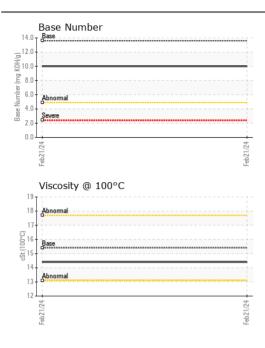
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- QTS)

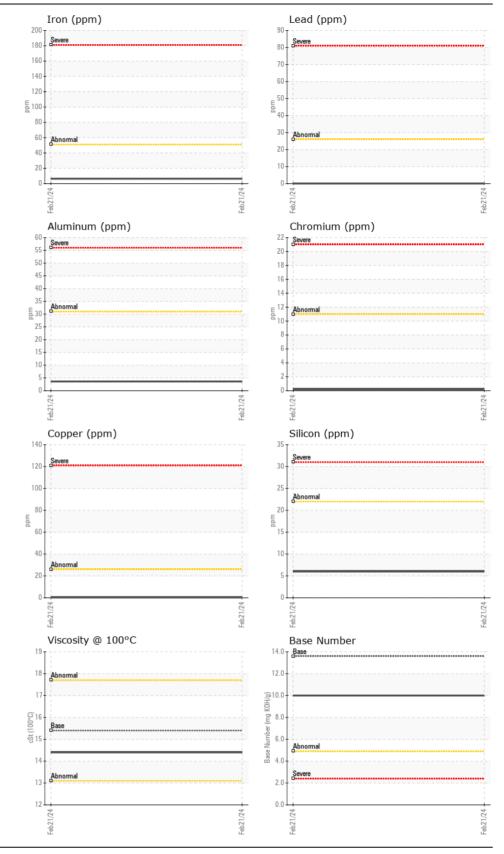
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (·	(13)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0137477		
	Sample Date		Client Info		21 Feb 2024		
	Machine Age	hrs	Client Info		2399		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>51	6		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m		4		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		<1		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon				~ · · · · · · · · · · · · · · · · · · ·		
CONTAMINATION	Potassium	ppm ppm	ASTM D5185m ASTM D5185m		6 4		
There is no indication of any contamination in the oil.	Fuel	ррпі	WC Method		ب <1.0		
	Water		WC Method		NEG		
	Glycol		WC Method	20.LT	NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624		6.6		
	Sulfation	Abs/.1mm	*ASTM D7415		19.9		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.21	NEG		
FLUID CONDITION	Sodium		ASTM D5185m	<u>_</u> 21	1		
	Boron	ppm ppm	ASTM D5185m	201	269		
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		
	Molybdenum	ppm	ASTM D5185m		226		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		807		
	Calcium	ppm	ASTM D5185m		1550		
	Phosphorus	ppm	ASTM D5185m		902		
	Zinc	ppm	ASTM D5185m		1061		
	Sulfur	ppm	ASTM D5185m		3142		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8		
	Base Number (BN)				10.0		
		0.0					

Visc @ 100°C cSt

ASTM D445 15.4

14.4





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - WILKESBORO** Sample No. : JR0137477 Received 288 WESTGATE DRIVE : 23 Feb 2024 Lab Number : 06098905 : 26 Feb 2024 WILKESBORO, NC Tested Unique Number : 10897135 : 26 Feb 2024 - Wes Davis US 28697 Diagnosed Test Package : MOBCE (Additional Tests: TBN) Contact: BUTCH JANES Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. bjanes@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (336)973-8201 F: (336)973-8496 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Ē

Contact/Location: BUTCH JANES - JAMWIL

Page 2 of 2