

JOHN DEERE 245G 1FF245GXVNF802609

Component Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (24 QTS)

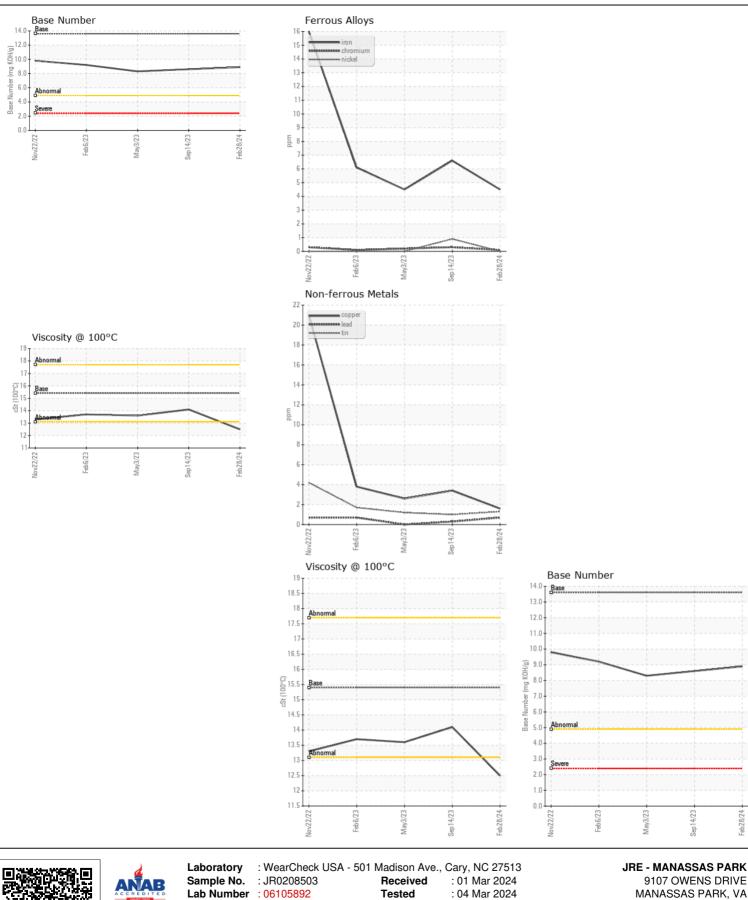
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (2	24 QIS)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0208503	JR0187666	JR0172806
	Sample Date		Client Info		28 Feb 2024	14 Sep 2023	03 May 2023
	Machine Age	hrs	Client Info		2438	1937	1453
	Oil Age	hrs	Client Info		1022	1005	1014
	Filter Age	hrs	Client Info		1022	0	0
	Oil Changed		Client Info		Changed	N/A	N/A
	Filter Changed		Client Info		Changed	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	4	7	4
	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	0	<1	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	7	6	5
	Lead	ppm	ASTM D5185m	>26	<1	<1	0
	Copper	ppm	ASTM D5185m	>26	2	3	3
	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	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	9	10	8
	Potassium	ppm	ASTM D5185m	>20	1	2	2
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>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	0.2	0.2	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	7.1	8.0	6.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	19.5	18.3
	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	1	<1	0
	Boron	ppm	ASTM D5185m		190	259	238
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		192	268	244
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		655	833	878
	Calcium	ppm	ASTM D5185m		1692	1519	1540
	Phosphorus	ppm	ASTM D5185m		877	968	939
	Zinc	ppm	ASTM D5185m		1091	1159	1127
	Sulfur	ppm	ASTM D5185m		3031	3454	3646
	Oxidation	Abs/.1mm	*ASTM D7414		14.4	13.8	13.7
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.9	8.6	8.3
		<u> </u>	LOTH D //F				10.0

Visc @ 100°C cSt ASTM D445 15.4

14.1

12.5

13.6



 Lab Number
 : 06105892
 Tested
 : 04 Mar 2024
 MANASSAS PARK, VA

 Unique Number
 : 10909389
 Diagnosed
 : 04 Mar 2024 - Don Baldridge
 US 20111

 Certificate 12367
 Test Package
 : CONST (Additional Tests: FuelDilution, TBN)
 Contact: DON VEST

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

 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 T: (703)631-8500

 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)
 F: (703)631-4715