

JOHN DEERE 245G 1FF245GXCGF800133

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (26 QTS)

Test	LIOM	Method	l imit/∆hn	Current	History1	History2
	00101		LITTICADI		, , , , , , , , , , , , , , , , , , ,	JR016342
		Client Info		27 Jun 2024		17 Mar 202
Machine Age	hrs	Client Info		4645	4233	4158
Oil Age	hrs	Client Info		300	75	500
Filter Age	hrs	Client Info		300	75	500
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>51	4	<1	24
Chromium	ppm	ASTM D5185m	>11	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>31	3	3	3
Lead	ppm	ASTM D5185m	>26	<1	1	0
Copper	ppm	ASTM D5185m	>26	<1	<1	2
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
Silicon	ppm	ASTM D5185m	>22	7	7	9
Potassium	ppm	ASTM D5185m	>20	0	2	4
Fuel		WC Method	>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	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	7.2	6.1	6.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	19.1	19.3
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar		NONE	NONE	NONE	NONE
Appearance						NORN
						NORN
Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
Sodium	ppm		>31	1	3	2
Boron	ppm	ASTM D5185m		204	238	232
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm					104
Manganese	ppm	ASTM D5185m		<1	<1	1
0	ppm					469
	ppm	ASTM D5185m		1630	1304	1564
Phosphorus	ppm	ASTM D5185m		955	878	821
		ACTM DE10Em		1148	998	1013
Zinc	ppm	ASTM D5185m				
Sulfur	ppm	ASTM D5185m		3835	2714	3038
	ppm Abs/.1mm	ASTM D5185m *ASTM D7414	-			
	Oil AgeOil AgeFilter AgeOil ChangedFilter ChangedSample StatusIronChromiumNickelTitaniumSilverAluminumLeadCopperTinVanadiumWhite MetalYellow MetalYellow MetalSiliconPotassiumFuelWaterGlycolSoot %NitrationSulfationSiltDebrisSand/DirtAppearanceOdorEmulsified WaterBoronBariumMolybdenumMagnesiemCalcium	Sample NumberSample DateMachine AgehrsOil AgehrsFilter AgehrsOil ChangedFilter ChangedFilter Changedsample StatusIronppmChromiumppmNickelppmTitaniumppmSilverppmLeadppmCopperppmTinppmVanadiumppmVanadiumppmFuelscalarYellow MetalscalarSilvcolscalarSiltscalarSiltscalarSiltscalarYellow MetalscalarSiliconppmFuelscalarSiliconspmFuelscalarSoot %%NitrationAbs/cmSulfationAbs/cmSulfationscalarSodiumscalarAppearancescalarSodiumppmManganeseppmMagnesiumppmMagnesiumppmNagnesiumppm	Sample NumberClient InfoSample DateClient InfoMachine AgehrsClient InfoOil AgehrsClient InfoFilter AgehrsClient InfoOil ChangedClient InfoFilter ChangedClient InfoSample StatusClient InfoSample StatusSilverIronppmASTM D5185mNickelppmASTM D5185mNickelppmASTM D5185mAluminumppmASTM D5185mLeadppmASTM D5185mCopperppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mFuelWC MethodSiliconppmASTM D5185mFuelWC MethodGlycolWC MethodSoot %%*ASTM D5185mFuelWC MethodSiltscalar*VisualSiltscalar*VisualSolf con%*ASTM D7844NitrationAbs/:Imm*ASTM D7844NitrationAbs/:Imm*ASTM D5185mGodorscalar*VisualSodiumppmASTM D5185mBoronppmASTM D5185mManganeseppmASTM D5185mMagnesiumppmASTM D5185mMagnesiumppmASTM D5185mMagnesiumppmASTM D5185m	Sample NumberClient InfoSample DateClient InfoMachine AgehrsClient InfoOil AgehrsClient InfoFilter AgehrsClient InfoOil ChangedClient InfoFilter ChangedClient InfoSample StatusStm D5185mIronppmASTM D5185mNickelppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mSilverppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanadiumppmASTM D5185mVanatiumppmASTM D5185mVanatiumppmASTM D5185mVanatiumppmASTM D5185mVanatiumppmASTM D5185mVanatiumppmASTM D5185mVanatiumppmASTM D5185mVanatiumppmASTM D5185mVanatiumppmASTM D5185mSiliconppmASTM D5185mSuiliconAstm D5185mSoot %%*ASTM D7145Soot %%*ASTM D7145Sand/Dirtscalar*VisualAppearancescalar*VisualAppearancescalar*VisualAppearancescalar*VisualMolybdenumppmASTM D5185mBarium <td>Sample NumberClient InfoJR0221119Sample DateClient Info27 Jun 2024Machine AgehrsClient Info300Filter AgehrsClient Info300Oil AgehrsClient Info300Filter AgehrsClient InfoChangedFilter ChangedClient InfoChangedSample StatusClient InfoChangedIronppmASTM D5185m>51NickelppmASTM D5185m>5TitaniumppmASTM D5185m>3SilverppmASTM D5185m>31LeadppmASTM D5185m>26CopperppmASTM D5185m>26CopperppmASTM D5185m>26VanadiumppmASTM D5185m>26VanadiumppmASTM D5185m>26ValadiumppmASTM D5185m>26ValadiumppmASTM D5185m>20Variet Metalscalar"VisualNONESiliconppmASTM D5185m>200FuelWC Method>2.1<1.0</td> WateroWC Method>2.1NONESoliycol%< "ASTM D7624>207.2SulfationAbs/1mm"ASTM D7624>20Soliycol%< "ASTM D7624>207.2SulfationAbs/1mm"ASTM D7624>20Appearancescalar"VisualNONEAppearancescalar"VisualN <td>Sample NumberClient InfoJR0221119JR0186136Sample DateClient Info27 Jun 202430 Oct 2023Machine AgehrsClient Info30075Filter AgehrsClient Info30075Oil ChangedClient Info30075Oil ChangedClient InfoChangedNot ChangedFilter ChangedClient InfoChangedNot ChangedSample StatusSample StatusNORMALNORMALIronppmASTM D5185m>50<1</td> NickelppmASTM D5185m>50<1TitaniumppmASTM D5185m>300SliverppmASTM D5185m>26<11CopperppmASTM D5185m>26<1<1TinppmASTM D5185m>26<1<1VanadiumppmASTM D5185m>26<1<1VanadiumppmASTM D5185m>26<1<1VanadiumppmASTM D5185m>200<1Velow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>2277PotassiumppmASTM D5185m>2002FuelWC Method>2.21NEGNEGSoot %%YaSTM D5185m>300.10.1NitrationAbs/rm'YisualNONENONENONESoot %	Sample NumberClient InfoJR0221119Sample DateClient Info27 Jun 2024Machine AgehrsClient Info300Filter AgehrsClient Info300Oil AgehrsClient Info300Filter AgehrsClient InfoChangedFilter ChangedClient InfoChangedSample StatusClient InfoChangedIronppmASTM D5185m>51NickelppmASTM D5185m>5TitaniumppmASTM D5185m>3SilverppmASTM D5185m>31LeadppmASTM D5185m>26CopperppmASTM D5185m>26CopperppmASTM D5185m>26VanadiumppmASTM D5185m>26VanadiumppmASTM D5185m>26ValadiumppmASTM D5185m>26ValadiumppmASTM D5185m>20Variet Metalscalar"VisualNONESiliconppmASTM D5185m>200FuelWC Method>2.1<1.0	Sample NumberClient InfoJR0221119JR0186136Sample DateClient Info27 Jun 202430 Oct 2023Machine AgehrsClient Info30075Filter AgehrsClient Info30075Oil ChangedClient Info30075Oil ChangedClient InfoChangedNot ChangedFilter ChangedClient InfoChangedNot ChangedSample StatusSample StatusNORMALNORMALIronppmASTM D5185m>50<1

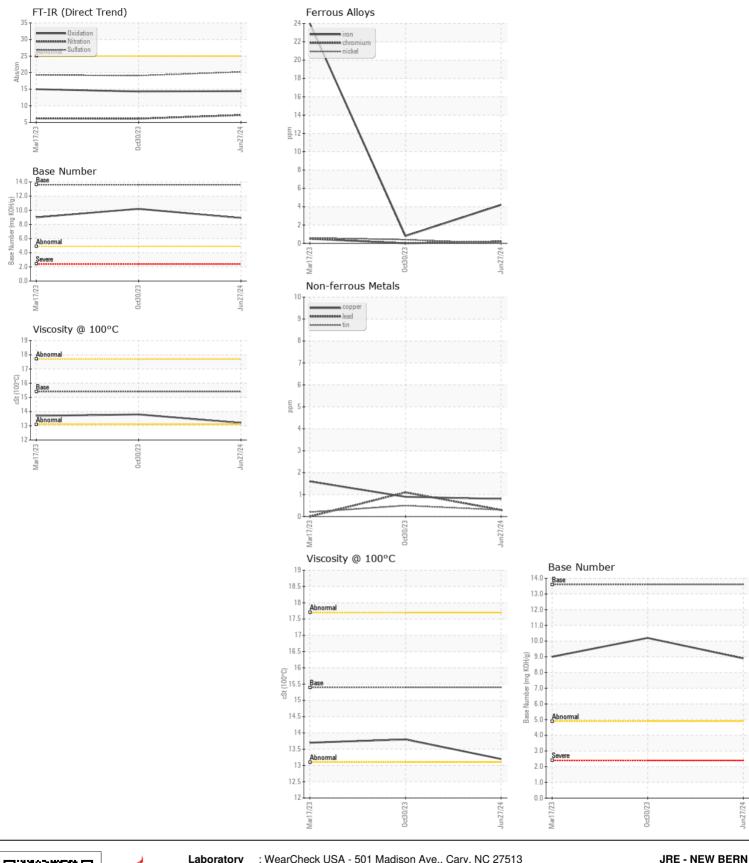
Visc @ 100°C cSt

ASTM D445 15.4

13.7

13.8

13.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - NEW BERN** Sample No. : JR0221119 Received 3816 MARTIN LUTHER KING BLVD : 01 Jul 2024 Lab Number : 06224309 Tested : 02 Jul 2024 NEW BERN, NC Unique Number : 11102506 Diagnosed : 02 Jul 2024 - Wes Davis US 28562 Test Package : CONST (Additional Tests: TBN) Contact: NEW BERN SHOP Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. nick.etherdridge@jamesriverequipment.com;canastasio@wearcheckusa.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Т: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)