

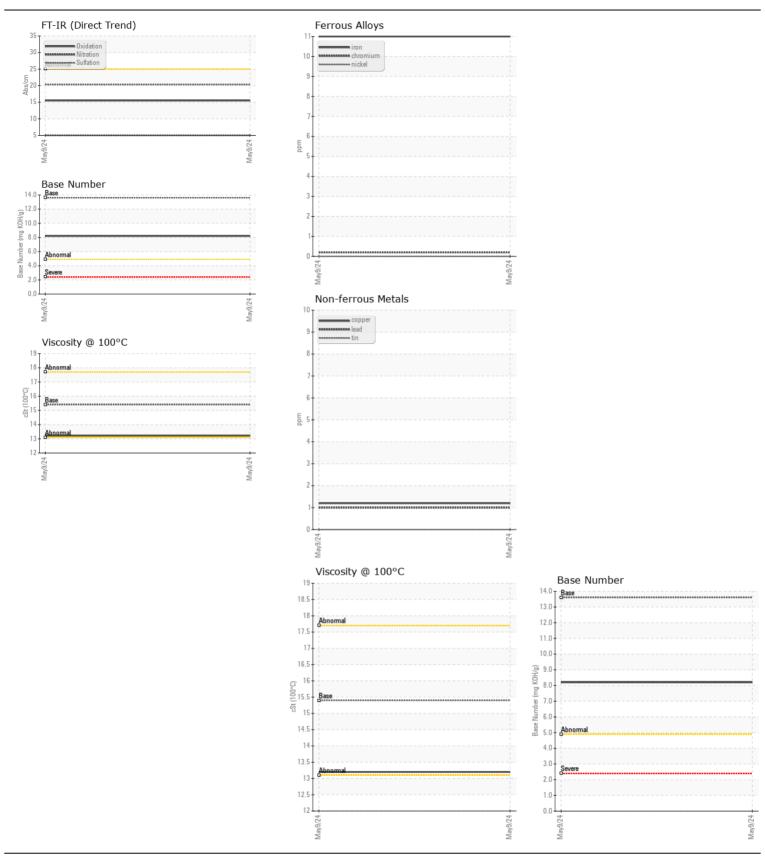


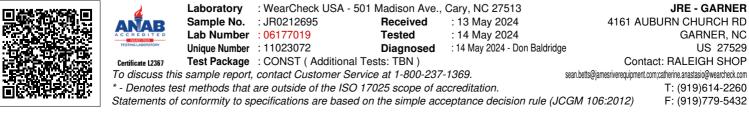
[W49786] JOHN DEERE 325G 1T0325GJPKJ346756

Diesel Engine

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

Test UOM Method Utrent History2 History2 Resample at the next service interval to monitor. Sample Nather Service Client Info 0 No No No Basehae Autority Client Info 0 No No <th></th> <th></th> <th>··· 、</th> <th>····/</th> <th></th> <th></th> <th> </th>			··· 、	····/			
Resample at the next service interval to monitor. Sample Date Machine Age hrs Client Info 09 May 224 (110 10 - 10 - 124)	RECOMMENDATION		UOM		Limit/Abn		
Single Data Distribution Distribution </th <th rowspan="2">Resample at the next service interval to monitor.</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Resample at the next service interval to monitor.						
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File Age Visit Client Info 0		0					
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Filter Changed Sample Status Client. Info Changed NORMAL		-	hrs			-	
Sample Status Normal n Normal n WEAR Iron pm All component wear rates are normal. Iron pm ASIM0588 >10 1 1 0 1 Nickel pm ASIM0588 >11 0 0 1		-				-	
Iron ppm ASTM DS18m >51 11 All component wear rates are normal. PPM ASTM DS18m >51 0 Nickel ppm ASTM DS18m >51 0 Tatanium ppm ASTM DS18m >31 0 Aluminum ppm ASTM DS18m >26 1 Aluminum ppm ASTM DS18m >26 1 Lead ppm ASTM DS18m >26 1 Variadum ppm ASTM DS18m >26 1		-		Client Info			
All component wear rates are normal. Chromium Nickel ppm ASTM Distas 11 <1		Sample Status				NORMAL	
All component wear rates are normal. Chromium Nickel ppm ASTM Distas 11 <1		Iron	maa	ASTM D5185m	>51	11	
All component wear rates are normal. Nickel ppm ASTM Distan -5 0 Titanium ppm ASTM Distan -5 0 All urninum ppm ASTM Distan -3 0 All urninum ppm ASTM Distan -31 2 All urninum ppm ASTM Distan -31 2 Copper ppm ASTM Distan -31 0 Vanduim ppm ASTM Distan -26 1 Vanduim ppm ASTM Distan -26 1 Vanduim ppm ASTM Distan -26 1 Vanduim ppm ASTM Distan -20 1 Vanduim ppm ASTM Distan -22 11 Potassium potassium potassium potassium				ASTM D5185m	>11		
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Vanadium ppm ASTM D5185m 0 White Metal Yellow Metal scalar 'Visual NONE NONE CONTAMINATION Silicon ppm ASTM D516m -22 11 There is no indication of any contamination in the oil. Silicon ppm ASTM D516m -22 11 Water WC Method >-2.1 <1.0 Water WC Method >-2.1 <1.0 Sold %C %STM D784 >3 0.1 Water WC Method >-2.1 <1.0 Sold %C 'ASTM D7844 >3 0.1 Sulfation Abs:Imm<'ASTM D7845 >20 3 Sold scalar 'Visual NONE NONE <							
White Metal Yellow Metal scalar 'Visual NONE NONE CONTAMINATION Silicon ppm ASTM D5185m >-22 11 There is no indication of any contamination in the oil. Silicon ppm ASTM D5185m >-22 11 Water WC Method >-21					21	-	
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CONTAMINATION Silicon ppm ASTM D5185m >220 11 There is no indication of any contamination in the oil. Potassium ppm ASTM D5185m >20 1 Fuel WC Method >2.1 <1.0 Water WC Method >0.21 NEG Glycol WC Method >0.21 NEG Sili con AstM D7844 >3 0.1 Sili scalar *Visual NONE >0.0 8.0 Sili scalar Visual NONE NONE Debris scalar *Visual NORM NORM Appearance scalar *Visual NORML Modor scalar *Visual NORML <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>							
Potassium ppm ASTM D5185m >20 1 i Fuel WC Method >2.1 <1.0 Water WC Method >2.01 NEG Glycol WC Method >2.01 NEG Soot % % YSTM D7844 >3 0.1 Nitration Abs/m YSTM D7845 >20 20.3 Sultation Abs/m YSTM D784 NONE NONE Sultation Abs/m YSTM D784 NORM NORML Sultation Abs/m Scalar			Scalai	visuai			
Potassium ppm ASTM D5185m >20 1 i Fuel WC Method >2.1 <1.0 Water WC Method >2.01 NEG Glycol WC Method >2.01 NEG Soot % % YSTM D7844 >3 0.1 Nitration Abs/m YSTM D7845 >20 20.3 Sultation Abs/m YSTM D784 NONE NONE Sultation Abs/m YSTM D784 NORM NORML Sultation Abs/m Scalar	CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	11	
Function Workerhold Section		Potassium	ppm	ASTM D5185m	>20	1	
Glycol WC Method NEG Soot % % *ASTM D78/4 >3 0.1 Nitration Abs/1m 'ASTM D78/2 >20 5.0 Nitration Abs/1m 'ASTM D78/15 >30 20.3 E0.3 Sulfation Abs/1m 'ASTM D78/15 >30 20.3 E0.3 Sulfation Abs/1m 'ASTM D78/15 >30 20.3 E0.3 Sulfation Abs/1m 'ASTM D78/15 NONE NONE Debris scalar 'Visual NONE NONE Appeance scalar 'Visual NORM NORML Odor scalar 'Visual NORM NORML Bronn ppm ASTM D5185m Bron Molybdenum pm <td< th=""><th rowspan="12">There is no indication of any contamination in the oil.</th><th>Fuel</th><th></th><th>WC Method</th><th>>2.1</th><th><1.0</th><th> </th></td<>	There is no indication of any contamination in the oil.	Fuel		WC Method	>2.1	<1.0	
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Siltscalar*VisualNONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORLNORLNORLOdorscalar*VisualNORLNORLNORLEmulsified Watescalar*VisualNORLNORLFLUID CONDITIONSodiumppmASTM D5185m>312BoronppmASTM D5185m0BariumppmASTM D5185m0MaganeseppmASTM D5185m		Nitration	Abs/cm	*ASTM D7624	>20	5.0	
Debris scalar *Visual NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORL NORL Appearance scalar *Visual NORL NORL Odor scalar *Visual NORL NORL Odor scalar *Visual NORL NORL Odor scalar *Visual NORL NORL Brunstified Water scalar *Visual NORL NORL Broon ppm ASTM D5185m S1 2 Brun ppm ASTM D5185m ID Molybdenum ppm ASTM D5185m ID Magneses ppm ASTM D5185m ID Calcium ppm ASTM D5185m ID Calcium ppm ASTM D5185m <		Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3	
Debris scalar *Visual NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Odor scalar *Visual NORML NORML FUUD CONDITION Sodium ppm ASTM D5185m >31 2 Boron ppm ASTM D5185m 0 Barium ppm ASTM D5185m 0 Magnaenee ppm ASTM D5185m 0 Magnesium pm ASTM D5185m < Magnesium pm ASTM D5185m 1 Calcium ppm ASTM D5185m 158<		Silt	scalar	*Visual	NONE	NONE	
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Sodium ppm ASTM D5185m >31 2 Boron ppm ASTM D5185m 31 2 Boron ppm ASTM D5185m 429 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m 453 Magnesium ppm ASTM D5185m 453 Phosphorus ppm ASTM D5185m 1648 Zinc ppm ASTM D5185m 1090 Sulfur ppm ASTM D5185m 1328 Oxidation Abs/.tmm<*ASTM D5185m 1328 Base Number (BN) mg K0Hg ASTM D2896 13.6 8.2			scalar	*Visual		NORML	
Boron ppm ASTM D5185m Q 429 Barium ppm ASTM D5185m O Molybdenum ppm ASTM D5185m O Manganese ppm ASTM D5185m Magnesium ppm ASTM D5185m Calcium ppm ASTM D5185m Calcium ppm ASTM D5185m The Sphorus ppm ASTM D5185m Magnesium ppm ASTM D5185m Calcium ppm ASTM D5185m Sulfur ppm ASTM D5185m Sulfur ppm ASTM D5185m Sulfur ppm ASTM D5185m <t< th=""><th>Emulsified Water</th><th>scalar</th><th>*Visual</th><th>>0.21</th><th>NEG</th><th> </th></t<>		Emulsified Water	scalar	*Visual	>0.21	NEG	
Boron ppm ASTM D5185m Q 429 Barium ppm ASTM D5185m O Molybdenum ppm ASTM D5185m O Manganese ppm ASTM D5185m Magnesium ppm ASTM D5185m Calcium ppm ASTM D5185m Calcium ppm ASTM D5185m The Shoreus ppm ASTM D5185m Magnesium ppm ASTM D5185m Calcium ppm ASTM D5185m							
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 Molybdenum ppm ASTM D5185m 0 Manganese ppm ASTM D5185m Magnesium ppm ASTM D5185m 453 Calcium ppm ASTM D5185m 453 Calcium ppm ASTM D5185m 1648 Phosphorus ppm ASTM D5185m 1090 Zinc ppm ASTM D5185m 1328 Sulfur ppm ASTM D5185m 4254 Oxidation Abs/.1mm *ASTM D7141 >25 15.5 Base Number (BN) mg KOHg ASTM D2896 13.6 8.2	FLUID CONDITION		ppm		>31		
oil. The condition of the oil is suitable for further service. Molybdenum ppm ASTM D5185m 0 0 Molybdenum ppm ASTM D5185m 0 99 Manganese ppm ASTM D5185m 1 Magnesium ppm ASTM D5185m 1 453 Calcium ppm ASTM D5185m 1 4453 Phosphorus ppm ASTM D5185m 1 1 Zinc ppm ASTM D5185m 1 1328 Sulfur ppm ASTM D5185m 1328 Oxidation Abs/.1mm *ASTM D5185m 4254 Base Number (BN) mg KOHg ASTM D2896 13.6 8.2	The BN result indicates that there is suitable alkalinity remaining in the		ppm			429	
Molybdenum ppm ASIM U5/85m 99 Manganese ppm ASTM D5/85m			ppm				
Magnesium ppm ASTM D5185m 453 Calcium ppm ASTM D5185m 1648 Phosphorus ppm ASTM D5185m 1090 Zinc ppm ASTM D5185m 1328 Sulfur ppm ASTM D5185m 1328 Oxidation Abs/.1mm *ASTM D5185m 4254 Base Number (BN) mg KOH/g ASTM D2896 13.6 8.2		-	ppm			99	
Calcium ppm ASTM D5185m 1648 Phosphorus ppm ASTM D5185m 1090 Zinc ppm ASTM D5185m 1328 Sulfur ppm ASTM D5185m 4254 Oxidation Abs/.1mm *ASTM D7414 >25 15.5 Base Number (BN) mg KOHg ASTM D2896 13.6 8.2		Manganese	ppm				
Phosphorus ppm ASTM D5185m 1090 Zinc ppm ASTM D5185m 1328 Sulfur ppm ASTM D5185m 4254 Oxidation Abs/.1mm *ASTM D7414 >25 15.5 Base Number (BN) mg KOHg ASTM D2896 13.6 8.2		-	ppm				
Zinc ppm ASTM D5185m 1328 Sulfur ppm ASTM D5185m 4254 Oxidation Abs/.1mm *ASTM D7414 >25 15.5 Base Number (BN) mg KOH/g ASTM D2896 13.6 8.2			ppm			1648	
Sulfur ppm ASTM D5185m 4254 Oxidation Abs/.1mm *ASTM D7414 >25 15.5 Base Number (BN) mg KOH/g ASTM D2896 13.6 8.2		Phosphorus	ppm	ASTM D5185m		1090	
Oxidation Abs/.1mm *ASTM D7414 >25 15.5 Base Number (BN) mg KOH/g ASTM D2896 13.6 8.2		Zinc	ppm	ASTM D5185m		1328	
Base Number (BN) mg KOH/g ASTM D2896 13.6 8.2		Sulfur	ppm	ASTM D5185m		4254	
		Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	
Visc @ 100°C cSt ASTM D445 15.4 13.2		Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.2	
		Visc @ 100°C	cSt	ASTM D445	15.4	13.2	





Contact/Location: RALEIGH SHOP - RWMGAR Page 2 of 2