

Area

WEAR NORMAL CONTAMINATION SEVERE FLUID CONDITION NORMAL



3424016 VOLVO L35G 3424016

Front Axle

VOLVO WB 102 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

W	EA	R

All component wear rates are normal.

CONTAMINATION

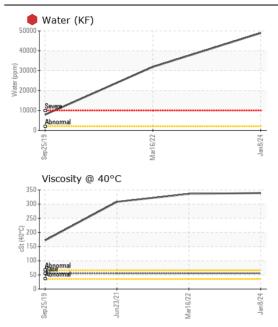
There is a high concentration of water present in the oil.

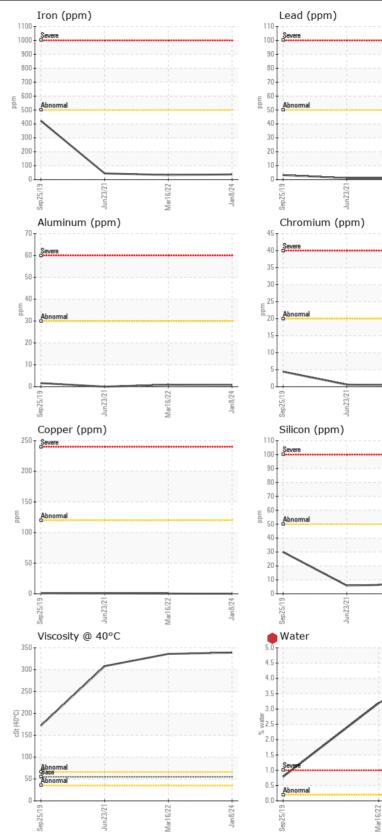
FLUI			
			4.

The oil is no longer serviceable due to the presence of contaminants.

TestUOMMethodLimi/AbCurrentHistory1History2Sample NumberClient InfoIo9Jan 202416 Mar 202223 Jun 2021Machine AgehrsClient InfoIo882872186609Oil AgehrsClient InfoIo000Filter AgehrsClient InfoIoNANot ChangedFilter AgeIoClient InfoIoNANot ChangedFilter AgeClient InfoIoSEVERESEVEREAttentionSample StatusClient InfoSEVERESEVEREAttentionIronppmASTM D5185SO0373344ChromiumppmASTM D5185SO0C11-1NickelppmASTM D5185SO0C11-1NickelppmASTM D5185SO0C11-1NickelppmASTM D5185SO0C11-1ItaniumppmASTM D5185SOC11-1ItaniumppmASTM D5185SOC11-1CopperppmASTM D5185SOC11-1ItaniumppmASTM D5185SOC11-1NomeppmASTM D5185SOC11-1CopperppmASTM D5185SOST76PotassiumppmASTM D5185SOST76<					\frown		
Sample DateClient InfoOB Jan 202416 Mar 202223 Jun 2014Machine AgehrsClient InfoI82872186609Oil AgehrsClient InfoI000Filter AgehrsClient InfoIChangedChangedChangedOil ChangedClient InfoINot ChangedNot ChangedChangedSample StatusClient InfoNot ChangedNANot ChangedSample StatusSample StatusSevereSevereATTENTIONIronppmASTM 5585>500373344ChroniumppmASTM 5585>104<11-1NickelppmASTM 5585>104<111SilverppmASTM 5585>204<111CopperppmASTM 5585>504<111CopperppmASTM 5585>20320VandiumppmASTM 5585>20320VandiumppmASTM 5585>20320Valdout Metalscala'VisualNONENONENONENONESilconppmASTM 5585>50576Patewardscala'VisualNONENONENONENONESilconppmASTM 5585>50576PotasuimppmASTM 5585>5010<	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age Oil AgehrsClient InfoMB82872186609Oil AgehrsClient Info0000Filter AgehrsClient InfoMChangedChangedChangedFilter ChangedClient InfoMChangedN/ANot ChangedSample StatusClient InfoMN/ANot ChangedIronppmASTM D5185m>500 37 3344ChromiumppmASTM D5185m>10<1<1<1NickelppmASTM D5185m>10<1<1<1NickelppmASTM D5185m>10<1<1<1NickelppmASTM D5185m>50<1<1<1AluminumppmASTM D5185m>50<1<1<1CopperppmASTM D5185m>50<1<1<1CopperppmASTM D5185m>20<1<1<1Yellow Metalscalar"VisualNONENONENONENONESiliconppmASTM D5185m>20<1<0<SiliconppmASTM D5185m>20<10<SiliconppmASTM D5185m>20<10<SiliconppmASTM D5185m>20<10<SiliconppmASTM D5185m>20<10<SiliconppmASTM D5185m	Sample Number		Client Info		VCP438153	DJJ0005233	VCP321821
Cil Age Filter AgeInsClient InfoOOOFilter AgehrsClient InfoInfoChangedChangedChangedChangedFilter ChangedClient InfoNot ChangedNANot ChangedSample StatusClient InfoSEVERESEVEREATTENTIONIronppmASTM D5185n>500373344ChromiumppmASTM D5185n>10<1<1<1NickelppmASTM D5185n>10<11<1TitaniumppmASTM D5185n>10<11<1NickelppmASTM D5185n>10<11<1CopperppmASTM D5185n>30<111CopperppmASTM D5185n>10<11<1CopperppmASTM D5185n>10<111YanadiumppmASTM D5185n>20320VanadiumppmASTM D5185n>20100VanadiumppmASTM D5185n>20100VanadiumppmASTM D5185n>20100VanadiumppmASTM D5185n>20100VanadiumppmASTM D5185n>20100VanadiumppmASTM D5185n>20100VanadiumppmASTM D5185n>20100 <th>Sample Date</th> <th></th> <th>Client Info</th> <th></th> <th>08 Jan 2024</th> <th>16 Mar 2022</th> <th>23 Jun 2021</th>	Sample Date		Client Info		08 Jan 2024	16 Mar 2022	23 Jun 2021
Filter Age OhrsClient Info000Oil ChangedClient InfoChangedChangedChangedFilter ChangedClient InfoNot ChangedN/ANot ChangedSample StatusSEVERESEVEREATTENTIONIronppmASTM D5185m>500373344ChromiumppmASTM D5185m>10<	Machine Age	hrs	Client Info		8828	7218	6609
Oil ChangedClient InfoChangedChangedChangedChangedN/ANot ChangedFilter ChangedClient InfoNot ChangedN/ANot ChangedSEVEREATTENTIONSample StatusSEVERESEVEREATTENTIONSEVEREATTENTIONIronppmASTM D5185>500373344ChromiumppmASTM D5185>20<1<1<1NickelppmASTM D5185>0<1<1<1NickelppmASTM D5185>30<1<1<1SilverppmASTM D5185>30<1<1<1CopperppmASTM D5185>50<1<1<1CopperppmASTM D5185>20320VanadiumppmASTM D5185>20320VanadiumppmASTM D5185>203<1<1CopperppmASTM D5185>203<1<1Yellow Metalscalar"VisualNONENONENONENONESiliconppmASTM D5185>20100<SiliconppmASTM D5185>20100<SiliconppmASTM D5185>20100<SiliconppmASTM D5185>20100<SiliconppmASTM D5185>20100 <th>Oil Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	Oil Age	hrs	Client Info		0	0	0
Filter Changed Sample StatusClient InfoNot ChangdN/ANot ChangdSample StatusSEVERESEVEREATTENTIONIronppmASTM D5185n>500373344ChroniumppmASTM D5185n>20<1<1<1NickelppmASTM D5185n>10<11<1TitaniumppmASTM D5185n>10<11<1SilverppmASTM D5185n>30<110LeadppmASTM D5185n>203120VanadiumppmASTM D5185n>20320VanadiumppmASTM D5185n>20320VanadiumppmASTM D5185n>20320VanadiumppmASTM D5185n>20320VanadiumppmASTM D5185n>20320VanadiumppmASTM D5185n>20320VanadiumppmASTM D5185n>20300VanadiumppmASTM D5185n>2039SiliconppmASTM D5185n>20576PotassiumppmASTM D5185n>20489003.190SiliconppmASTM D5185n>20489003.190Siliconscalar'VisualNONENONENONENONE <t< th=""><th>Filter Age</th><th>hrs</th><th>Client Info</th><th></th><th>0</th><th>0</th><th>0</th></t<>	Filter Age	hrs	Client Info		0	0	0
Sample StatusSEVERESEVEREATTENTIONIronppmASTM D5185m>500373344ChromiumppmASTM D5185m>20<1<1<1NickelppmASTM D5185m>10<11<1TitaniumppmASTM D5185m0<10<1SilverppmASTM D5185m>30<1<10LeadppmASTM D5185m>30<111CopperppmASTM D5185m>20320VanadiumppmASTM D5185m>20320VanadiumppmASTM D5185m>20320VanadiumppmASTM D5185m>20320VanadiumppmASTM D5185m>50576PotassiumppmASTM D5185m>20100Vater%ASTM D5185m>20100Water%ASTM D5185m>20100SiliconppmASTM D5185m>20100Water%ASTM D5185m>204.8993.19ppm WaterppmASTM D5185m>204.8993.19Silitscalar*VisualNONENONENONENONEDebrisscalar*VisualNORENONENONENONEAstm D5185m<00 </th <th>Oil Changed</th> <th></th> <th>Client Info</th> <th></th> <th>Changed</th> <th>Changed</th> <th>Changed</th>	Oil Changed		Client Info		Changed	Changed	Changed
IronppmASTM D5185m>5003733344ChromiumppmASTM D5185m>20<1<1<1NickelppmASTM D5185m>10<11<1TitaniumppmASTM D5185m0<105AluminumppmASTM D5185m0<110LeadppmASTM D5185m>500<111CopperppmASTM D5185m>200320VanadiumppmASTM D5185m>200320VanadiumppmASTM D5185m>200320Vellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>203000Vater%ASTM D5185m>50576PotassiumppmASTM D5185m>20100Water%ASTM D5185m>20489003.190SiliconppmASTM D5185m>20489003.190SiliconppmASTM D5185m>20489003.190Silitscalar*VisualNONENONENONENONEDebrisscalar*VisualNORENONENONENONESand/Dirtscalar*VisualNORENORENORENOREAppearancescalar*VisualNORE <t< th=""><th>Filter Changed</th><th></th><th>Client Info</th><th></th><th>Not Changd</th><th>N/A</th><th>Not Changd</th></t<>	Filter Changed		Client Info		Not Changd	N/A	Not Changd
ChromiumppmASTM D5185m>CO<1	Sample Status				SEVERE	SEVERE	ATTENTION
Chromium ppm ASTM D5185m >CO <1				500		00	
NickelppmASTM D5185m>10<1					-		
TitaniumppmASTM D5185m0<1							
SilverppmASTM D5185m0<1				>10			
Aluminum ppm ASTM D5185m >30 <1					-		
Lead ppm ASTM D5185m >50 <1				0.5			
Copper ppm ASTM D5185m >120 0 <1		ppm					
TinppmASTM D5185m>20320VanadiumppmASTM D5185mIO00White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>50576PotassiumppmASTM D5185m>20100Water%ASTM D5185m>204.893.19ppm WaterppmASTM D504>0.024890031900Silitscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNORMNORMAMILKYAHAZYOdorscalar*VisualNORMNORMNORMNORMLAppearancescalar*VisualNORMNORMNORMLNORMLBoronppmASTM D5185m00<11BariumppmASTM D5185m13711112411BariumppmASTM D5185m24106MaganeseppmASTM D5185m24106CalciumppmASTM D5185m24106CalciumppmASTM D5185m24106CalciumppmASTM D5185m2432226Phosphorus <th>Lead</th> <th>ppm</th> <th></th> <th></th> <th></th> <th>1</th> <th></th>	Lead	ppm				1	
VanadiumppmASTM D5185mOOOWhite Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>50576PotassiumppmASTM D5185m>20100Water%ASTM D6304>.0.2● 4.89● 3.19ppm WaterppmASTM D6304>.0.2● 48900● 31900Siltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNORMNONENONENONEAppearancescalar*VisualNORMNORMLMILKYHAZYOdorscalar*VisualNORMNORMLNORMLNORMLEmulsified Waterscalar*VisualNORMNORMLNORMLNORMLBoronppmASTM D5185m00<1111BariumppmASTM D5185m21<11ManganeseppmASTM D5185m<4106CalciumppmASTM D5185m<43226PhosphorusppmASTM D5185m492125SulfurppmASTM D5185m492125SulfurppmASTM D5185m492125	Copper	ppm	ASTM D5185m	>120	-		<1
White Metalscalar'VisualNONENONENONENONEYellow Metalscalar'VisualNONENONENONENONESiliconppmASTM D5185m>50576PotassiumppmASTM D5185m>20100Water%ASTM D6304>.0.2●4.89●3.19ppm WaterppmASTM D6304>.0.0●48900●31900Siltscalar'VisualNONENONENONENONEDebrisscalar'VisualNONENONENONENONESand/Dirtscalar'VisualNORMNONENONENONEAppearancescalar'VisualNORMNORMLAMILKYAHAZYOdorscalar'VisualNORMNORMLNORMLNORMLNORMLEmulsified Waterscalar'VisualNORMNORMLNORMLNORMLNORMLBoronppmASTM D5185mC00<1241BariumppmASTM D5185mC1371111241ManganeseppmASTM D5185mC1<11ManganeseppmASTM D5185mC1212PhosphorusppmASTM D5185mC683226PhosphorusppmASTM D5185mC492125SulfurppmASTM D5185m492125 </th <th>Tin</th> <th>ppm</th> <th>ASTM D5185m</th> <th>>20</th> <th>3</th> <th>2</th> <th>0</th>	Tin	ppm	ASTM D5185m	>20	3	2	0
Yellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>50576PotassiumppmASTM D5185m>20100Water%ASTM D6304>0.2• 4.89• 3.19ppm WaterppmASTM D6304>2000• 48900• 31900Siltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLMILKYA HAZYOdorscalar*VisualNORMLNORMLNORMLNORMLBariumppmASTM D5185m00<1BariumppmASTM D5185m00<1ManganeseppmASTM D5185m24106CalciumppmASTM D5185m6832226PhosphorusppmASTM D5185m492125SulfurppmASTM D5185m492125SulfurppmASTM D5185m299712075919528	Vanadium	ppm	ASTM D5185m		-	0	0
SiliconppmASTM D5185m>50576PotassiumppmASTM D5185m>20100Water%ASTM D6304>0.24.893.19ppm WaterppmASTM D6304>20004890031900Siltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNORMNORMNORENONENONEAppearancescalar*VisualNORMNORMLMILKYHAZYOdorscalar*VisualNORMNORMLNORMLNORMLBariumppmASTM D5185mo00<11	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Potassium ppm ASTM D5185m >20 1 0 0 Water % ASTM D6304 >0.2 • 4.89 • 3.19 ppm Water ppm ASTM D6304 >0.20 • 48900 • 31900 Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE Appearance scalar *Visual NORML	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Potassium ppm ASTM D5185m >20 1 0 0 Water % ASTM D6304 >0.2 • 4.89 • 3.19 ppm Water ppm ASTM D6304 >0.20 • 48900 • 31900 Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE NONE Appearance scalar *Visual NORML	Silicon	nnm	ASTM D5185m	⊳ 50	5	7	6
Water%ASTM D6304>0.24.893.19ppm WaterppmASTM D6304>20004890031900Siltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLMILKYHAZYOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*VisualNOR0<1BoronppmASTM D5185m00<1BariumppmASTM D5185m00<1ManganeseppmASTM D5185m24106CalciumppmASTM D5185m683226PhosphorusppmASTM D5185m492125SulfurppmASTM D5185m299712075919528					-		
ppm WaterppmASTM D6304>2000▲ 48900▲ 31900Siltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLMILKY▲ HAZYOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2● 0.2%● 0.2%NEGSodiumppmASTM D5185m00<1BariumppmASTM D5185m137111241BariumppmASTM D5185m2<1<1MagnesiumppmASTM D5185m2<1<1MagnesiumppmASTM D5185m<143226PhosphorusppmASTM D5185m4893226PhosphorusppmASTM D5185m492125SulfurppmASTM D5185m492075919528							-
Siltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLMILKYHAZYOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2• 0.2%• 0.2%NEGSodiumppmASTM D5185m00<1111BoronppmASTM D5185m00<1BariumppmASTM D5185m00<1MolybdenumppmASTM D5185m<12<111ManganeseppmASTM D5185m<14<106CalciumppmASTM D5185m683226PhosphorusppmASTM D5185m492125SulfurppmASTM D5185m492075919528					•	•	
Debrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLMILKYHAZYOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2• 0.2%• 0.2%NEGSodiumppmASTM D5185mo0<1111241BariumppmASTM D5185mInon0<11MolybdenumppmASTM D5185mInon0<11MagnesiumppmASTM D5185mInonInonInon6CalciumppmASTM D5185mInonInonInon6PhosphorusppmASTM D5185mInonInonInon6PhosphorusppmASTM D5185mInonInonInon10InonASTM D5185mInonInonInonInonInonInonASTM D5185mInonInonInonInonInonInonppmASTM D5185mInonInonInonInonInonInonppmASTM D5185mInonInonInonInonInonInonppmASTM D5185mInonInonInonInonInonInonASTM D5185mInonInonInonInonInonInonInonASTM						• • • • •	
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLMILKYHAZYOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.20.2%0.2%NEGSodiumppmASTM D5185m00<1BoronppmASTM D5185m11371111241BariumppmASTM D5185m00<1MolybdenumppmASTM D5185m2<1<1MagnesiumppmASTM D5185m<141<11MagnesiumppmASTM D5185m68832226PhosphorusppmASTM D5185m4992125SulfurppmASTM D5185m4992075919528				-	-	-	
Appearancescalar*VisualNORMLNORMLMILKYHAZYOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.20.2%0.2%NEGSodiumppmASTM D5185m00<1BoronppmASTM D5185m00<1BariumppmASTM D5185m00<1MolybdenumppmASTM D5185m00<1ManganeseppmASTM D5185m24106CalciumppmASTM D5185m683226PhosphorusppmASTM D5185m1044846854ZincppmASTM D5185m49212525SulfurppmASTM D5185m299712075919528				_	-		
Odorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.20.2%0.2%NEGSodiumppmASTM D5185m00<11				-	-	-	
Emulsified Water scalar *Visual >0.2 0.2% NEG Sodium ppm ASTM D5185m 0 0.2% NEG Boron ppm ASTM D5185m 137 111 241 Barium ppm ASTM D5185m 0 0 <1 Molybdenum ppm ASTM D5185m 2 <1 <1 Manganese ppm ASTM D5185m 24 10 6 Calcium ppm ASTM D5185m 24 10 6 Phosphorus ppm ASTM D5185m 68 32 26 Phosphorus ppm ASTM D5185m 49 21 25 Sulfur ppm ASTM D5185m 49 20759 19528				-	-		
Sodium ppm ASTM D5185m 0 0 <1				-		-	
Boron ppm ASTM D5185m 137 111 241 Barium ppm ASTM D5185m 0 0 <1 Molybdenum ppm ASTM D5185m 2 <1 <1 Manganese ppm ASTM D5185m <1 <1 1 Magnesium ppm ASTM D5185m <24 10 6 Calcium ppm ASTM D5185m 68 32 26 Phosphorus ppm ASTM D5185m 68 32 26 Phosphorus ppm ASTM D5185m 49 21 25 Sulfur ppm ASTM D5185m 29971 20759 19528		ooului		20.L		0.270	
Barium ppm ASTM D5185m 0 0 <1	Sodium	ppm	ASTM D5185m		0	0	<1
Molybdenum ppm ASTM D5185m 2 <1	Boron	ppm	ASTM D5185m		137	111	241
Manganese ppm ASTM D5185m <1	Barium	ppm	ASTM D5185m		0	0	<1
Magnesium ppm ASTM D5185m 24 10 6 Calcium ppm ASTM D5185m 68 32 26 Phosphorus ppm ASTM D5185m 1044 846 854 Zinc ppm ASTM D5185m 49 21 25 Sulfur ppm ASTM D5185m 29971 20759 19528	Molybdenum	ppm	ASTM D5185m		2	<1	<1
Calcium ppm ASTM D5185m 68 32 26 Phosphorus ppm ASTM D5185m 1044 846 854 Zinc ppm ASTM D5185m 49 21 25 Sulfur ppm ASTM D5185m 29971 20759 19528	Manganese	ppm	ASTM D5185m		<1	<1	1
Phosphorus ppm ASTM D5185m 1044 846 854 Zinc ppm ASTM D5185m 49 21 25 Sulfur ppm ASTM D5185m 29971 20759 19528	Magnesium	ppm	ASTM D5185m		24	10	6
Zinc ppm ASTM D5185m 49 21 25 Sulfur ppm ASTM D5185m 29971 20759 19528	Calcium	ppm	ASTM D5185m		68	32	26
Sulfur ppm ASTM D5185m 29971 20759 19528	Phosphorus	ppm	ASTM D5185m		1044	846	854
	Zinc	ppm	ASTM D5185m		49	21	25
Visc @ 40°C cSt ASTM D445 55 339 336 308	Sulfur	ppm	ASTM D5185m		29971	20759	19528
	Visc @ 40°C	cSt	ASTM D445	55	339	336	308

Contact/Location: NILDA RIOS - UPUORL





U-PULL-AND-PAY LLC - ORLANDO Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. 1157 JETSTREAM DRIVE : VCP438153 Recieved : 11 Jan 2024 Lab Number : 06058381 ORLANDO, FL Diagnosed : 14 Jan 2024 : 10829763 Diagnostician : Don Baldridge US 32824 Unique Number Test Package : MOB 1 (Additional Tests: KF) Contact: NILDA RIOS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. nilda.rios@upullandpay.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (407)473-3798 F: (407)856-4029 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: NILDA RIOS - UPUORL

Mar16/22

Mar16/22

Mar16/22

Page 2 of 2

an8/71