

VOLVO L90G 617476 Component Transmission (Auto)

CHEVRON GLOBAL ATF (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the fluid.

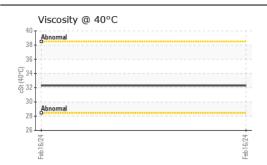
FLUID CONDITION

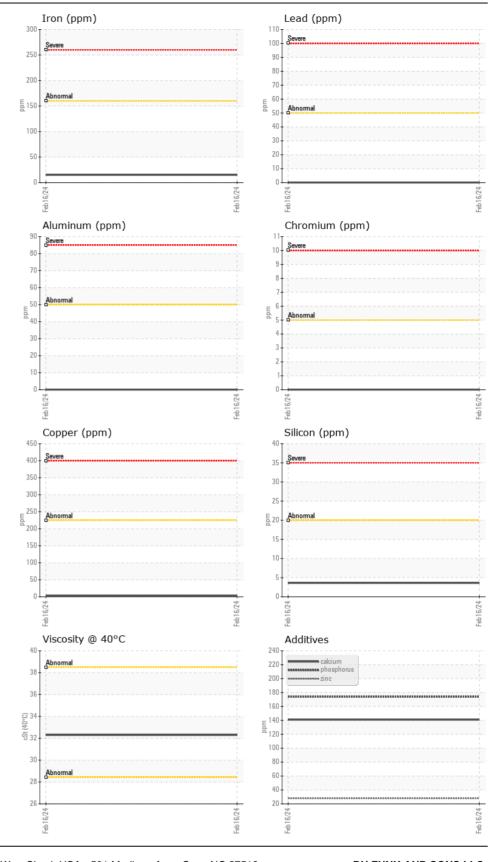
The condition of the fluid is acceptable for the time in service.

TestUOMMethodLimit/ACurrentHistory1History2Sample NumberClient InfoVCP384805Sample DateClient InfoInf Beb 2024Machine AgehrsClient Info2000Oil AgehrsClient Info2000Filter AgehrsClient InfoNot ChangOil ChangedImageClient InfoNAFilter ChangedImageClient InfoNASample StatusClient InfoNAIronppmASTM D5185m>16015NickelppmASTM D5185m>500NickelppmASTM D5185m>500SilverppmASTM D5185m>500AuminumppmASTM D5185m>500AgamASTM D5185m>500CopperppmASTM D5185m>100YanadiumppmASTM D5185m>100YanadiumppmASTM D5185m>200YanadiumppmASTM D5185m>200YanadiumppmASTM D5185m>200Yanadiumppm	<u>`</u>						
Sample DateClient Infoich 6 Feb 2024Machine AgehrsClient Info6000Oil AgehrsClient Info2000Filter AgehrsClient InfoNot ChangdOil ChangedClient InfoNot ChangdFilter ChangedClient InfoN/ASample StatusN/AIronppmASTM D5185>16015NickelppmASTM D5185>50NickelppmASTM D5185>50SilverppmASTM D5185>50AluminumppmASTM D5185>500LeadppmASTM D5185>500VanadiumppmASTM D5185>100VanadiumppmASTM D5185>100SiliconppmASTM D5185>200SiliconppmASTM D5185>200SiliconppmASTM D5185>200SiliconppmASTM D5185>200SiliconppmASTM D5185>200SiliconppmASTM D5185>200	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age Oil Age bitshrsClient Info6000Gil Age Filter Age Oil ChangedIrsClient Info0Gil ChangedClient InfoNot ChangdGil ChangedClient InfoNAFilter ChangedClient InfoNASample StatusNORMALIronppmASTM D5185m>16015ChromiumppmASTM D5185m>500NickelppmASTM D5185m>500SilverppmASTM D5185m>500AluminumppmASTM D5185m>500LeadppmASTM D5185m>500VanadiumppmASTM D5185m>100VanadiumppmASTM D5185m>100SiliconppmASTM D5185m>200SiliconppmASTM D5185m>200SiliconppmASTM D5185m>200SiliconppmASTM D5185m>200SiliconppmASTM D5185m>200SiliconppmASTM D5185m>200SiliconppmASTM D5185m>200SiliconppmASTM D5185m>20 </th <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>VCP384805</th> <th></th> <th></th>	Sample Number		Client Info		VCP384805		
Oil Age Filter Age Oil ChangedhrsClient Info2000Filter Age Oil ChangedhrsClient InfoNot ChangGli ChangedClient InfoN/AFilter ChangedNClient InfoN/ASample StatusClient InfoN/AIronppmASTM D5185n>16015IronppmASTM D5185n>50NickelppmASTM D5185n>50SilverppmASTM D5185n>50SilverppmASTM D5185n>500LeadppmASTM D5185n>500VanadiumppmASTM D5185n>100VanadiumppmASTM D5185n>100SiliconppmASTM D5185n>204SiliconppmASTM D5185n>200SiliconppmASTM D5185n>200SiliconppmASTM D5185n>200SiliconppmASTM D5185n>200SiliconppmASTM D5185n>20Image <trr>SiliconppmASTM D5185n<th>Sample Date</th><th></th><th>Client Info</th><th></th><th>16 Feb 2024</th><th></th><th></th></trr>	Sample Date		Client Info		16 Feb 2024		
Filter Age Oil ChangedhrsClient InfoNotNot ChangedGil ChangedClient InfoNot ChangedFilter ChangedIClient InfoN/ASample StatusVNORMALIronppmASTM D5185n>16015IronppmASTM D5185n>50NickelppmASTM D5185n>50SilverppmASTM D5185n>50SilverppmASTM D5185n>500LeadppmASTM D5185n>500CopperppmASTM D5185n>100VanadiumppmASTM D5185n>100Yellow Metalscalar*VisualNONENONESiliconppmASTM D5185n>200SiliconppmASTM D5185n>200SiliconppmASTM D5185n>200SiliconppmASTM D5185n>200SiliconppmASTM D5185n>200SiliconppmASTM D5185n>20ImageSilitscalar <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>6000</th> <th></th> <th></th>	Machine Age	hrs	Client Info		6000		
Oil ChangedClient InfoNot ChangdFilter ChangedClient InfoN/ASample StatusN/AIronppmASTM D5185n>16015IronppmASTM D5185n>50NickelppmASTM D5185n>50NickelppmASTM D5185n>50SilverppmASTM D5185n>500AluminumppmASTM D5185n>500LeadppmASTM D5185n>500CopperppmASTM D5185n>200VanadiumppmASTM D5185n>100VanadiumppmASTM D5185n>100SiliconppmASTM D5185n>200SiliconppmASTM D5185n>200SiliconppmASTM D5185n>200SiliconppmASTM D5185n>200SiliconppmASTM D5185n>200SiliconppmASTM D5185n>200SiliconppmASTM D5185n>200SiliconppmASTM D5185n>200SiliconppmASTM D5185n>200Siliconscalar*VisualNONENONE<	Oil Age	hrs	Client Info		2000		
Filter Changed Sample StatusClient InfoN/ASample StatusClient InfoN/AIronppmASTM D5185m>16015IronppmASTM D5185m>50NickelppmASTM D5185m>50NickelppmASTM D5185m>50SilverppmASTM D5185m>50AluminumppmASTM D5185m>500LeadppmASTM D5185m>500CopperppmASTM D5185m>500VanadiumppmASTM D5185m>100VanadiumppmASTM D5185m>100VisualNONENONESiliconppmASTM D5185m>204SiliconppmASTM D5185m>200SiliconppmASTM D5185m>200SiliconppmASTM D5185m>200SiliconppmASTM D5185m>200SiliconppmASTM D5185m>200SiliconppmASTM D5185m>200SiliconppmASTM D5185m>200SiliconppmASTM D5185m>200Siliconscala	Filter Age	hrs	Client Info		0		
Sample StatusNORMALIronppmASTM D5185m>16015ChromiumppmASTM D5185m>50NickelppmASTM D5185m>50TitaniumppmASTM D5185m>50SilverppmASTM D5185m>50AluminumppmASTM D5185m>500LeadppmASTM D5185m>500CopperppmASTM D5185m>200VanadiumppmASTM D5185m>100VanadiumppmASTM D5185m>100Yellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>200SiliconppmASTM D5185m>200SiliconppmASTM D5185m>200SiliconppmASTM D5185m>200SiliconppmASTM D5185m>200Siliconscalar*VisualNONENONESiliconscalar*VisualNONENONESiliconscalar*VisualNONENONESiliconscalar*VisualNONENONEGodrascalar*VisualNONENONEGodrascalar*Visu	Oil Changed		Client Info		Not Changd		
IronppmASTM D5185m>16015ChromiumppmASTM D5185m>50NickelppmASTM D5185m>50TitaniumppmASTM D5185m>50SilverppmASTM D5185m>500AluminumppmASTM D5185m>500LeadppmASTM D5185m>500CopperppmASTM D5185m>2253TinppmASTM D5185m>100VanadiumppmASTM D5185m>100White Metalscalar*VisualNONENONESiliconppmASTM D5185m>204SiliconppmASTM D5185m>200SiliconppmASTM D5185m>200SiliconppmASTM D5185m>200Silitscalar*VisualNONENONESilitscalar*VisualNONENONESand/Dirtscalar*VisualNORMNORMLAppearancescalar*VisualNORMLNORMLCodorscalar<	Filter Changed		Client Info		N/A		
Chromium ppm ASTM D5185m >5 0 Nickel ppm ASTM D5185m >5 0 Titanium ppm ASTM D5185m >5 0 Silver ppm ASTM D5185m >5 0 Aluminum ppm ASTM D5185m >50 0 Lead ppm ASTM D5185m >50 0 Copper ppm ASTM D5185m >20 0 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >20 4 Silicon ppm ASTM D5185m	Sample Status				NORMAL		
Chromium ppm ASTM D5185m >5 0 Nickel ppm ASTM D5185m >5 0 Titanium ppm ASTM D5185m >5 0 Silver ppm ASTM D5185m >5 0 Aluminum ppm ASTM D5185m >50 0 Lead ppm ASTM D5185m >50 0 Copper ppm ASTM D5185m >20 0 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >10 0 Vanadium ppm ASTM D5185m >20 4 Silicon ppm ASTM D5185m							
NickelppmASTM D5185m>50TitaniumppmASTM D5185m>50SilverppmASTM D5185m>500AluminumppmASTM D5185m>500LeadppmASTM D5185m>500CopperppmASTM D5185m>100TinppmASTM D5185m>100VanadiumppmASTM D5185m>100VanadiumppmASTM D5185m>100VanadiumppmASTM D5185m>100VanadiumppmASTM D5185m>100VanadiumppmASTM D5185m>20AYellow Metalscalar*VisualNONEASiliconppmASTM D5185m>20ASiliconppmASTM D5185m>20ASiliconscalar*VisualNONENONESodar*VisualNONENONEASiliconscalar*VisualNONENONESodar*VisualNONENONEASodar*VisualNONENORML<	-	ppm			-		
TitaniumppmASTM D5185mOOSilverppmASTM D5185m>5OAluminumppmASTM D5185m>50OLeadppmASTM D5185m>50OCopperppmASTM D5185m>2253TinppmASTM D5185m>10OVanadiumppmASTM D5185m>10OVanadiumppmASTM D5185m>10OVanadiumppmASTM D5185m>10OVanadiumppmASTM D5185m>20AYellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>20ASiliconppmASTM D5185m>20ASiliconppmASTM D5185m>20ASilitscalar*VisualNONENONESaitscalar*VisualNONENONESand/Dirtscalar*VisualNORMLNORMLAppearancescalar*VisualNORMLNORMLCodorscalar*Visual>0.1NEGSodiumppmAS		ppm			-		
SilverppmASTM D5185m>50AluminumppmASTM D5185m>500LeadppmASTM D5185m>500CopperppmASTM D5185m>2253TinppmASTM D5185m>100VanadiumppmASTM D5185m>100White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONEMONESiliconppmASTM D5185m>204Yellow Metalscalar*VisualNONESiliconppmASTM D5185m>204SiliconppmASTM D5185m>204Siliconscalar*VisualNONESiliconscalar*VisualNONENONESiliconscalar*VisualNONESilitscalar*VisualNONESand/Dirtscalar*VisualNONENOREAppearancescalar*VisualNORMLNORMLCodorscalar*VisualNORMLNORMLSodiumppmASTM D5185m>0.1NEGSodiumppmASTM D5185m>0.1NEG		ppm		>5	-		
AluminumppmASTM D5185m>500LeadppmASTM D5185m>500CopperppmASTM D5185m>2253TinppmASTM D5185m>100VanadiumppmASTM D5185m>100White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONEMONESiliconppmASTM D5185m>200SiliconppmASTM D5185m>200SiliconppmASTM D5185m>200Siliconscalar*VisualNONENONESiliconscalar*VisualNONENONESolitscalar*VisualNONENONESilitscalar*VisualNONENONESand/Dirtscalar*VisualNORMNORMLAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLSodiumppmASTM D5185m>0.1NEG		ppm			0		
LeadppmASTM D5185m>500 $$ $$ CopperppmASTM D5185m>2253 $$ $$ TinppmASTM D5185m>100 $$ $$ VanadiumppmASTM D5185m>100 $$ $$ White Metalscalar*VisualNONENONE $$ $$ Yellow Metalscalar*VisualNONE $NONE$ $$ $$ SiliconppmASTM D5185m>204 $$ $$ SiliconppmASTM D5185m>200 $$ $$ SiliconppmASTM D5185m>200 $$ $$ Siliconscalar*VisualNONE $$ $$ $$ Siliscalar*VisualNONE $$ $$ $$ Sadr/Dirtscalar*VisualNORMNORML $$ $$ Appearancescalar*VisualNORMLNORML $$ $$ Codorscalar*Visual>0.1NEG $$ $$ SodiumppmASTM D5185m>		ppm			-		
CopperppmASTM D5185m>2253TinppmASTM D5185m>100VanadiumppmASTM D5185m>100White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>204SiliconppmASTM D5185m>200WaterWC Method>0.1NEGSiltscalar*VisualNONENONESiltscalar*VisualNONENONESand/Dirtscalar*VisualNORMNONEAppearancescalar*VisualNORMNORMLCodorscalar*VisualNORMNORMLSodiumppmASTM D5185m>0.1NEG	Aluminum	ppm		>50	0		
TinppmASTM D5185m>100VanadiumppmASTM D5185m00White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>204PotassiumppmASTM D5185m>200WaterVC Method>0.1NEGSiliscalar*VisualNONENONESiltscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLSodiumppmASTM D5185m>0.1NEG	Lead	ppm		>50	0		
VanadiumppmASTM D5185mImage: Construction of the sector o	Copper	ppm	ASTM D5185m	>225	3		
White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>204PotassiumppmASTM D5185m>200WaterWC Method>0.1NEGSiliscalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLSodiumppmASTM D5185m>0.1NEG	Tin	ppm	ASTM D5185m	>10	0		
Yellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>204PotassiumppmASTM D5185m>200WaterWC Method>0.1NEGSilitscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGSodiumppmASTM D5185m	Vanadium	ppm	ASTM D5185m		0		
SiliconppmASTM D5185m>204PotassiumppmASTM D5185m>200WaterWC Method>0.1NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGSodiumppmASTM D5185m4	White Metal	scalar	*Visual	NONE	NONE		
PotassiumppmASTM D5185m>200WaterWC Method>0.1NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGSodiumppmASTM D5185m4	Yellow Metal	scalar	*Visual	NONE	NONE		
WaterWC Method>0.1NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGSodiumppmASTM D5185m4	Silicon	ppm	ASTM D5185m	>20	4		
Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGSodiumppmASTM D5185m4	Potassium	ppm	ASTM D5185m	>20	0		
Debrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGSodiumppmASTM D5185m4	Water		WC Method	>0.1	NEG		
Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG Sodium ppm ASTM D5185m 4	Silt	scalar	*Visual	NONE	NONE		
Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG Sodium ppm ASTM D5185m 4	Debris	scalar	*Visual	NONE	NONE		
Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.1 NEG Sodium ppm ASTM D5185m 4	Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.1 NEG Sodium ppm ASTM D5185m 4	Appearance	scalar	*Visual	NORML	NORML		
Sodium ppm ASTM D5185m 4	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
-	Sodium	ppm	ASTM D5185m		4		
	Boron		ASTM D5185m		70		
Barium ppm ASTM D5185m 0	Barium	ppm	ASTM D5185m		0		
Molybdenum ppm ASTM D5185m 0	Molybdenum	ppm	ASTM D5185m		0		
Manganese ppm ASTM D5185m <1	Manganese	ppm	ASTM D5185m		<1		
Magnesium ppm ASTM D5185m <1	Magnesium	ppm	ASTM D5185m		<1		
Calcium ppm ASTM D5185m 141	Calcium	ppm	ASTM D5185m		141		
Phosphorus ppm ASTM D5185m 174	Phosphorus	ppm	ASTM D5185m		174		
Zinc ppm ASTM D5185m 28	Zinc	ppm	ASTM D5185m		28		
Sulfur ppm ASTM D5185m 1464	Sulfur	ppm	ASTM D5185m		1464		
Visc @ 40°C cSt ASTM D445 32.3	Visc @ 40°C		ASTM D445		32.3		

Report Id: DHFCOL [WUSCAR] 06098789 (Generated: 02/26/2024 11:20:55) Rev: 1

Contact/Location: GARY SHEPHERD - DHFCOL







DH FUNK AND SONS LLC Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : VCP384805 Received 3995 CONTINENTAL DRIVE : 23 Feb 2024 Lab Number : 06098789 COLUMBIA, PA Tested : 26 Feb 2024 Unique Number : 10897019 : 26 Feb 2024 - Wes Davis US 17512 Diagnosed Test Package : MOB 1 Contact: GARY SHEPHERD Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. GSHEPHERD@DHFUNK.COM * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: GARY SHEPHERD - DHFCOL