

Machine Id VOLVO A40G 341139 Component Front Axle Fluid {not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

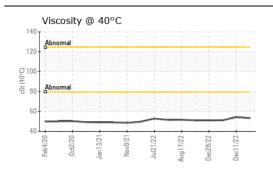
There is no indication of any contamination in the oil.

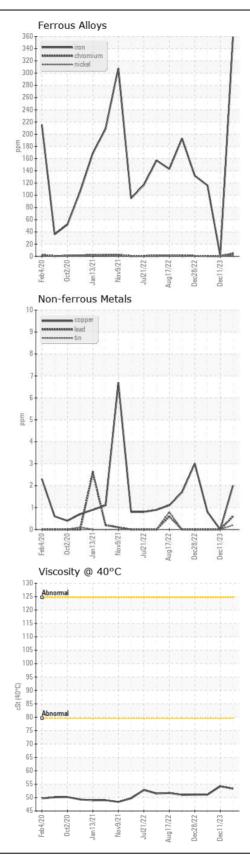
FLUID CONDITION

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

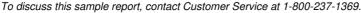
TestUOMMethodLimit/AbCurrentHistory1History2Sample NumberClient Info10 Apr 2024ASC000436ASC000476ASC000476Sample DateClient Info10 Apr 202411 Dec 202315 Mar 2023Machine AgehrsClient Info100000Filter AgehrsClient Info000Oil ChangedClient InfoN/AN/ANot ChangedFilter AngedClient InfoN/AN/ANot ChangedFilter ChangedClient InfoN/AN/ANot ChangedSample StatusVN/ANORMALABNORMALIronppmASTM D5185m>90035911116ChromiumppmASTM D5185m>10200NickelppmASTM D5185m>10200SilverppmASTM D5185m>50<100AluminumppmASTM D5185m>50<100VanadiumppmASTM D5185m>50<100VanaduumppmASTM D5185m>5012<19PotassiumppmASTM D5185m>5012<19PotassiumppmASTM D5185m>203<10WaterWC Method>0.2NCRENONENONENONESiliconppmASTM D5185m>203<10Potassium <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
Sample DateClient Info10 Apr 20211 Dec 202315 Mar 2023Machine AgehrsClient Info152791486213734Oil AgehrsClient Info000Filter AgehrsClient Info000Oil ChangedClient InfoNot ChangdNot ChangdChangedFilter ChangedClient InfoNot NANAC AnagdSample StatusClient InfoN/ANANot ChangdIronppmASTM D5185n>9003591116ChromiumppmASTM D5185n>10200NickelppmASTM D5185n>10200SilverppmASTM D5185nS0214LeadppmASTM D5185n>50200VanadiumppmASTM D5185n>50200VanadiumppmASTM D5185n>20<100VanadiumppmASTM D5185n>20<100VanadiumppmASTM D5185n>20<100VanadiumppmASTM D5185n>20<100VanadiumppmASTM D5185n>20<100VanadiumppmASTM D5185n>20<100VanadiumppmASTM D5185n>20<100VanadiumppmASTM D5185n>203	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age Oil AgehrsClient Info152791486213734Oil AgehrsClient Info100000Filter AgehrsClient InfoNot ChangdNot ChangdChangedFilter ChangedClient InfoN/AN/ANot ChangdFilter ChangedClient InfoN/AN/ANot ChangdSample StatusVORMALNORMALNORMALABNORMALIronppmASTM D5185m>2050<11NickelppmASTM D5185m>10200TitaniumppmASTM D5185m>30214LeadppmASTM D5185m>30214LeadppmASTM D5185m>3020<1CopperppmASTM D5185m>50<100VanadiumppmASTM D5185m>50<100VanadiumppmASTM D5185m>50<100VanadiumppmASTM D5185m>50<100VanadiumppmASTM D5185m>50120<1SiliconppmASTM D5185m>5012<19PotassiumppmASTM D5185m>5012<10SiliconppmASTM D5185m>5012<10SiliconppmASTM D5185m>5012<10Siliconppm	Sample Number		Client Info		ASC0010436	ASC0006151	VCP403770
Oil Age Filter AgehrsClient Info100010000Filter AgehrsClient InfoNot ChangdNot ChangdChangedFilter ChangedClient InfoN/AN/ANot ChangdSample StatusClient InfoN/AN/ANort ChangdIronppmASTM D5185m>9003591116ChromiumppmASTM D5185m>2050<1NickelppmASTM D5185m>10200TitaniumppmASTM D5185m50<10<1SilverppmASTM D5185m>50<100AluminumppmASTM D5185m>50<100QoperppmASTM D5185m>50<100VanaduiumppmASTM D5185m>20<100White Metalscalar*VisualNONEMODERNONENONESiliconppmASTM D5185m>5012<19PotassiumppmASTM D5185m>5012<19PotassiumppmASTM D5185m>5012<19PotassiumppmASTM D5185m>5012<10SiliconppmASTM D5185m>5012<10SiliconppmASTM D5185m>5012<10SodiumppmASTM D5185m>5012<10	Sample Date		Client Info		10 Apr 2024	11 Dec 2023	15 Mar 2023
Filter Age Oli ChangedClient Info000Oil ChangedClient InfoNot ChangedNot ChangedChangedFilter ChangedClient InfoN/AN/ANot ChangedSample StatusNORMALNORMALABNORMALIronppmASTM D5185m>90035911116ChromiumppmASTM D5185m>2050<1NickelppmASTM D5185m>2050<1NickelppmASTM D5185m>30200TitaniumppmASTM D5185m>30214LeadppmASTM D5185m>50<100CopperppmASTM D5185m>50<100VanaduumppmASTM D5185m>20<100VanaduumppmASTM D5185m>50<100VanaduumppmASTM D5185m>50<100VanaduumppmASTM D5185m>5012<19PotassiumppmASTM D5185m>5012<19PotassiumppmASTM D5185m>203<10SiliconppmASTM D5185m>203<10Silitscalar"VisualNONENONENONENONESodu/Tscalar"VisualNONENONENONENONESodu/Diritscalar"Vi	Machine Age	hrs	Client Info		15279	14862	13734
Oil Changed Filter ChangedClient InfoNot Changed N/ANot Changed NANot Changed NAFilter Changed Sample StatusClient InfoN/AN/ANot Changed NAIronppmASTM D5185m ASTM D5185m>2035911116ChromiumppmASTM D5185m ASTM D5185m>1020<	Oil Age	hrs	Client Info		1000	1000	0
Filter Changed Sample Status Client Info N/A	Filter Age	hrs	Client Info		0	0	0
Sample StatusNORMALNORMALABNORMALIronppmASTM D5185m>9003591116ChromiumppmASTM D5185m>10200NickelppmASTM D5185m>10200TitaniumppmASTM D5185m>10200SilverppmASTM D5185m>30214LeadppmASTM D5185m>30214LeadppmASTM D5185m>50<100CopperppmASTM D5185m>20<100VanadiumppmASTM D5185m>20<100White Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>5012<19PotassiumppmASTM D5185m>203<10WaterVisualNONENONENONENONENONESiliconppmASTM D5185m>203<10WaterVisualNONENONENONENONENONESolitscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLAppearancescalar*VisualNORMNORMLNORMLNORMLGodiumppmASTM D5185m00<11Maganese<	Oil Changed		Client Info		Not Changd	Not Changd	Changed
Iron ppm ASTM D5185m >900 359 1 116 Chromium ppm ASTM D5185m >20 5 0 <1 Nickel ppm ASTM D5185m >10 2 0 0 Titanium ppm ASTM D5185m >10 2 0 0 Aluminum ppm ASTM D5185m >30 2 1 4 Lead ppm ASTM D5185m >50 <1 0 0 Copper ppm ASTM D5185m >50 <1 0 0 Vanadium ppm ASTM D5185m >50 <1 0 0 Vanadium ppm ASTM D5185m >20 <1 0 0 White Metal scalar *Visual NONE NONE NONE NONE NONE Silicon ppm ASTM D5185m >20 3 <1 0 Wote Metal scalar *Visual NONE	Filter Changed		Client Info		N/A	N/A	Not Changd
Image ASTM D5185m >20 5 0 <1	Sample Status				NORMAL	NORMAL	ABNORMAL
Image ASTM D5185m >20 5 0 <1	Iron		ACTM DE105m	. 000	250	4	116
Nickel ppm ASTM D5185m >10 2 0 0 Titanium ppm ASTM D5185m I <1 0 <1 Silver ppm ASTM D5185m S0 2 1 4 Lead ppm ASTM D5185m >50 <1 0 0 Copper ppm ASTM D5185m >50 <1 0 0 Vanadium ppm ASTM D5185m >20 3 <1 0 Vallow Metal scalar *Visual NONE NONE NONE NONE Silicon ppm ASTM D5185m >20 3							
Titanium ppm ASTM D5185m Silver ppm ASTM D5185m 0 0 0 0 Aluminum ppm ASTM D5185m >30 2 1 4 Lead ppm ASTM D5185m >50 <1 0 0 Copper ppm ASTM D5185m >50 <1 0 0 Vanadium ppm ASTM D5185m >20 <1 0 0 White Metal scalar *Visual NONE MODER NONE NONE Silicon ppm ASTM D5185m >50 12 <1 9 Potassium ppm ASTM D5185m >50 3 <1 0 Water WC Method >0.2 NEG NEG NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NORE Appearance scalar *Visual NORL NORM					-		
Silver ppm ASTM D5185m >30 2 1 4 Lead ppm ASTM D5185m >30 2 1 4 Lead ppm ASTM D5185m >50 <1 0 0 Copper ppm ASTM D5185m >150 2 0 <1 Tin ppm ASTM D5185m >20 <1 0 0 Vanadium ppm ASTM D5185m >20 <1 0 0 White Metal scalar *Visual NONE MODER NONE NONE Silicon ppm ASTM D5185m >50 12 <1 9 Potassium ppm ASTM D5185m >20 3 <1 0 Water WC Method >0.2 NEG NEG NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NORE Appearance scalar *Visual NORL NOR				>10	_		
Aluminum ppm ASTM D5185m >30 2 1 4 Lead ppm ASTM D5185m >50 <1 0 0 Copper ppm ASTM D5185m >500 2 0 <1 Tin ppm ASTM D5185m >20 <1 0 0 Vanadium ppm ASTM D5185m >20 <1 0 0 White Metal scalar 'Visual NONE MODER NONE NONE Silicon ppm ASTM D5185m >50 12 <1 9 Potassium ppm ASTM D5185m >50 12 <1 9 Potassium ppm ASTM D5185m >20 3 <1 0 Water WC Method >0.2 NEG NEG NORE NORE Debris scalar 'Visual NONE NONE NONE NORML NORML Appearance scalar 'Visual							
Lead ppm ASTM D5185m >50 <1				. 20	-		-
Copper ppm ASTM D5185m >150 2 0 <1					_		
TinppmASTM D5185m>20<1						-	÷
VanadiumppmASTM D5185m<1					_		
White Metalscalar*VisualNONEMODERNONENONEHEAVYYellow Metalscalar*VisualNONENONENONENONENONENONESiliconppmASTM D5185m>5012<19PotassiumppmASTM D5185m>203<10WaterWC Method>0.2NEGNEGNEGSilitscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLOdorscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m2022BoronppmASTM D5185m20<1264BariumppmASTM D5185m50<11ManganeseppmASTM D5185m10011ManganeseppmASTM D5185m223724662288ZincppmASTM D5185m6401924022402SulfurppmASTM D5185m305172946329402				>20			÷
Yellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>5012<19PotassiumppmASTM D5185m>203<10WaterWC Method>0.2NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m202BoronppmASTM D5185m000MolybdenumppmASTM D5185m50<1ManganeseppmASTM D5185m1001MagnesiumppmASTM D5185m223724662288ZincppmASTM D5185m64019SulfurppmASTM D5185m305172946329402							÷
SiliconppmASTM D5185m>5012<1							
PotassiumppmASTM D5185m>203<1		Scala	v isuai			NONE	NONL
WaterWC Method>0.2NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m202BoronppmASTM D5185m279321264BariumppmASTM D5185m000MolybdenumppmASTM D5185m1001MagnesiumppmASTM D5185m2332324PhosphorusppmASTM D5185m123324662288ZincppmASTM D5185m64019SulfurppmASTM D5185m644019	Silicon	ppm	ASTM D5185m	>50	12	<1	9
Siltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m279321264BariumppmASTM D5185m000MolybdenumppmASTM D5185m001ManganeseppmASTM D5185m1001MagnesiumppmASTM D5185m1232324PhosphorusppmASTM D5185m253724662288ZincppmASTM D5185m64019SulfurppmASTM D5185m305172946329402	Potassium	ppm	ASTM D5185m	>20	3	<1	0
Debrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m202BoronppmASTM D5185m279321264BariumppmASTM D5185m000MolybdenumppmASTM D5185m1001MagnesiumppmASTM D5185m1232324PhosphorusppmASTM D5185m1233724662288ZincppmASTM D5185m64019SulfurppmASTM D5185m305172946329402	Water		WC Method	>0.2	NEG	NEG	NEG
Sand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m202BoronppmASTM D5185m279321264BariumppmASTM D5185m000MolybdenumppmASTM D5185m50<1ManganeseppmASTM D5185m1001MagnesiumppmASTM D5185m1232324PhosphorusppmASTM D5185m253724662288ZincppmASTM D5185m64019SulfurppmASTM D5185m305172946329402	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearancescalar*VisualNORML<	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Odorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m202BoronppmASTM D5185m279321264BariumppmASTM D5185m000MolybdenumppmASTM D5185m00<1ManganeseppmASTM D5185m1001MagnesiumppmASTM D5185m2237CalciumppmASTM D5185m1232324PhosphorusppmASTM D5185m64019SulfurppmASTM D5185m644019	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m202BoronppmASTM D5185m279321264BariumppmASTM D5185m000MolybdenumppmASTM D5185m50<1ManganeseppmASTM D5185m1001MagnesiumppmASTM D5185m1232324PhosphorusppmASTM D5185m123724662288ZincppmASTM D5185m64019SulfurppmASTM D5185m305172946329402	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Sodium ppm ASTM D5185m 2 0 2 Boron ppm ASTM D5185m 279 321 264 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 0 <1 Manganese ppm ASTM D5185m 10 <1 Magnesium ppm ASTM D5185m 10 1 Calcium ppm ASTM D5185m 23 24 Phosphorus ppm ASTM D5185m 2537 2466 2288 Zinc ppm ASTM D5185m 64 0 19 Sulfur ppm ASTM D5185m 30517 29463 29402	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Boron ppm ASTM D5185m 279 321 264 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 0 <1 Manganese ppm ASTM D5185m 10 <1 Magnesium ppm ASTM D5185m 2 3 7 Calcium ppm ASTM D5185m 123 23 24 Phosphorus ppm ASTM D5185m 2537 2466 2288 Zinc ppm ASTM D5185m 64 0 19 Sulfur ppm ASTM D5185m 30517 29463 29402	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Boron ppm ASTM D5185m 279 321 264 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 0 <1 Manganese ppm ASTM D5185m 10 <1 Magnesium ppm ASTM D5185m 2 3 7 Calcium ppm ASTM D5185m 123 23 24 Phosphorus ppm ASTM D5185m 2537 2466 2288 Zinc ppm ASTM D5185m 64 0 19 Sulfur ppm ASTM D5185m 30517 29463 29402	Sodium	nom	ASTM D5185m		2	0	2
Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 5 0 <1 Manganese ppm ASTM D5185m 10 0 1 Magnesium ppm ASTM D5185m 2 3 7 Calcium ppm ASTM D5185m 123 23 24 Phosphorus ppm ASTM D5185m 2537 2466 2288 Zinc ppm ASTM D5185m 64 0 19 Sulfur ppm ASTM D5185m 30517 29463 29402							
Molybdenum ppm ASTM D5185m 5 0 <1							
Manganese ppm ASTM D5185m 10 0 1 Magnesium ppm ASTM D5185m 2 3 7 Calcium ppm ASTM D5185m 123 23 24 Phosphorus ppm ASTM D5185m 64 0 19 Sulfur ppm ASTM D5185m 30517 29463 29402							<1
Magnesium ppm ASTM D5185m 2 3 7 Calcium ppm ASTM D5185m 123 23 24 Phosphorus ppm ASTM D5185m 2537 2466 2288 Zinc ppm ASTM D5185m 64 0 19 Sulfur ppm ASTM D5185m 30517 29463 29402							1
Calcium ppm ASTM D5185m 123 23 24 Phosphorus ppm ASTM D5185m 2537 2466 2288 Zinc ppm ASTM D5185m 64 0 19 Sulfur ppm ASTM D5185m 30517 29463 29402	-						
Phosphorus ppm ASTM D5185m 2537 2466 2288 Zinc ppm ASTM D5185m 64 0 19 Sulfur ppm ASTM D5185m 30517 29463 29402	•						
Zinc ppm ASTM D5185m 64 0 19 Sulfur ppm ASTM D5185m 30517 29463 29402							
Sulfur ppm ASTM D5185m 30517 29463 29402	Phosphorus						
			ASTM D5185m		64	0	19
	Zinc	ppm					

Contact/Location: Service Manager - HANERW





: WearCheck USA - 501 Madison Ave., Cary, NC 27513 HANSON SOUTHEAST NC HWY 117 : 12 Apr 2024 ERWIN, NC : 15 Apr 2024 : 15 Apr 2024 - Wes Davis US 28339 Contact: Service Manager



: ASC0010436

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Received

Diagnosed

Tested

Т:

F:

Certificate L2367

Laboratory

Sample No.

Lab Number : 06147807

Unique Number : 10977885

Test Package : CONST

Contact/Location: Service Manager - HANERW Page 2 of 2