

OIL ANALYSIS REPORT

Sample Rating Trend





[W02008242] VOLVO A30G 753133 Component Rear Axle

Fluid {not provided} (10 GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. (Customer Sample Comment: W02008242)

Area

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

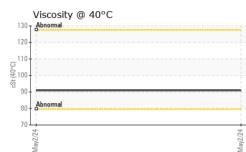
Fluid Condition

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

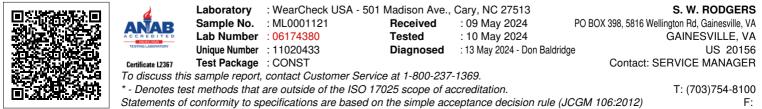
Water WC Method >0.2 NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >900 167 Chromium ppm ASTM D5185m >20 4 Nickel ppm ASTM D5185m >10 2 Silver ppm ASTM D5185m 0 Aluminum ppm ASTM D5185m >30 2 Lead ppm ASTM D5185m >150 19 Copper ppm ASTM D5185m >20 <1 Cadmium ppm ASTM D5185m >20 <1 ADDITIVES method Imit/base current history1 history2 Boron ppm ASTM D5185m 330	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Machine AgehrsClient Info821Oil AgangedClient Info821Sample StatusIClient InfoNORMALCONTAMINATIONmethodinit/basecurrenthistory!history!history!WaterWC Method0.2NEGWEAR METALSmethodinit/basecurrenthistory!WEAR METALSmethod167TranppmASTM D5185m>00167NickelppmASTM D5185m>102SilverppmASTM D5185m>102AluminumppmASTM D5185m500CopperppmASTM D5185m>500VanadiumppmASTM D5185m>0ManganeseppmASTM D5185m20<1	Sample Number		Client Info		ML0001121		
Machine AgehrsClient Info821Oil AgangedClient Info821Sample StatusIClient InfoNORMALCONTAMINATIONmethodinit/basecurrenthistory!history!history!WaterWC Method0.2NEGWEAR METALSmethodinit/basecurrenthistory!WEAR METALSmethod167TranppmASTM D5185m>00167NickelppmASTM D5185m>102SilverppmASTM D5185m>102AluminumppmASTM D5185m500CopperppmASTM D5185m>500VanadiumppmASTM D5185m>0ManganeseppmASTM D5185m20<1	Sample Date		Client Info		02 May 2024		
Cilient Info Changed Sample Status Image current NORMAL Image CONTAMINATION method imit/base current history1 history2 Water WC Method >.0.2 NEG Imit/base current history1 history2 WeAR METALS method imit/base current history1 history2 Iron ppm ASTM D5185m >.00 167 Nickel ppm ASTM D5185m >.00 2 Aluminum ppm ASTM D5185m >.00 Aduminum ppm ASTM D5185m >.50 0 Aduminum ppm ASTM D5185m >.50 0 Copper ppm ASTM D5185m .50 0 Adaminum ppm ASTM D5185m .5	Machine Age	hrs	Client Info				
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Water WC Method >0.2 NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 05185n >900 167 Othomium ppm ASTM 05185n >20 4 Nickel ppm ASTM 05185n >10 2 Aluminum ppm ASTM 05185n >30 2 Aluminum ppm ASTM 05185n >50 0 Aduminum ppm ASTM 05185n >20 11 Vanadium ppm ASTM 05185n 20 11 Vanadium ppm ASTM 05185n 20 -1 Vanadium ppm ASTM 05185n 330 Vanadium ppm ASTM 05185n 364	Sample Status				NORMAL		
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 05185m >900 167 Chromium ppm ASTM 05185m >20 4 Nickel ppm ASTM 05185m >10 2 Silver ppm ASTM 05185m >30 2 Aluminum ppm ASTM 05185m >30 2 Lead ppm ASTM 05185m >50 0 Copper ppm ASTM 05185m >20 <1 Vanadium ppm ASTM 05185m >20 <1 Vanadium ppm ASTM 05185m >20 <1 Vanadium ppm ASTM 05185m 330 ASTM 05185m S10 3	CONTAMINATIO	N	method	limit/base	current	history1	history2
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Nickel ppm ASTM D5185m > 10 2 Titanium ppm ASTM D5185m <1	Iron	ppm	ASTM D5185m	>900	167		
Titanium ppm ASTM D5185m <td>Chromium</td> <td>ppm</td> <td>ASTM D5185m</td> <td>>20</td> <th>4</th> <td></td> <td></td>	Chromium	ppm	ASTM D5185m	>20	4		
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Copper ppm ASTM D5185m >150 19 Tin ppm ASTM D5185m >20 <1	Aluminum	ppm	ASTM D5185m	>30	2		
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VanadiumppmASTM D5185m<1CadmiumppmASTM D5185m0ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m330BariumppmASTM D5185m3MolybdenumppmASTM D5185m9ManganeseppmASTM D5185m8MagnesiumppmASTM D5185m843CalciumppmASTM D5185m1475PhosphorusppmASTM D5185m364SulfurppmASTM D5185m21777SulfurppmASTM D5185m21777SolfumppmASTM D5185m>506SolfumppmASTM D5185m>207VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*Visual <td>Copper</td> <td>ppm</td> <td>ASTM D5185m</td> <td>>150</td> <th>19</th> <td></td> <td></td>	Copper	ppm	ASTM D5185m	>150	19		
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ADDITIVESmethodlimit/basecurrenthistory1history2BoronppmASTM D5185m330BariumppmASTM D5185m3MolybdenumppmASTM D5185m9MaganeseppmASTM D5185m8MagnesiumppmASTM D5185m843CalciumppmASTM D5185m843PhosphorusppmASTM D5185m1475ZincppmASTM D5185m21777SulfurppmASTM D5185m21777CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m<1	Vanadium	ppm	ASTM D5185m		<1		
BoronppmASTM D5185m330BariumppmASTM D5185m3MolybdenumppmASTM D5185m9ManganeseppmASTM D5185m8MagnesiumppmASTM D5185m2CalciumppmASTM D5185m843CalciumppmASTM D5185m1475CalciumppmASTM D5185m364SulfurppmASTM D5185m21777SulfurppmASTM D5185m21777CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>06PotassiumppmASTM D5185m>207VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONEYellow Metalscalar*VisualNONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNORMLNORMLAppearancescalar*VisualNORMLNORMLCodorscalar*VisualNOR	Cadmium	ppm	ASTM D5185m		0		
BariumppmASTM D5185m3MolybdenumppmASTM D5185m9ManganeseppmASTM D5185m8MagnesiumppmASTM D5185m2CalciumppmASTM D5185m843CalciumppmASTM D5185m1475CalciumppmASTM D5185m364ZincppmASTM D5185m21777SulfurppmASTM D5185m>506CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>207VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONEYellow Metalscalar*VisualNONESiltscalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNORMLNORMLAppearancescalar*VisualNORMLNORMLCodorscalar*VisualNORMLNORML <th>ADDITIVES</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	ADDITIVES		method	limit/base	current	history1	history2
MolybdenumppmASTM D5185m9ManganeseppmASTM D5185m2MagnesiumppmASTM D5185m2CalciumppmASTM D5185m843PhosphorusppmASTM D5185m1475ZincppmASTM D5185m1475SulfurppmASTM D5185m21777SulfurppmASTM D5185m>506SoliconppmASTM D5185m>506PotassiumppmASTM D5185m>207VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiltscalar*VisualNONENONESiltscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLCodorscalar*VisualNORMLNORMLCodorscalar*VisualNORMLNORMLCodorscalar*VisualNORMLNORM	Boron	ppm	ASTM D5185m		330		
MarganeseppmASTM D5185m8MagnesiumppmASTM D5185m2CalciumppmASTM D5185m843PhosphorusppmASTM D5185m1475ZincppmASTM D5185m364SulfurppmASTM D5185m21777CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>506SodiumppmASTM D5185m>207VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiltscalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLSand/Dirtscalar*VisualNORMLNORMLAppearancescalar*Visual </td <td>Barium</td> <td>ppm</td> <td>ASTM D5185m</td> <td></td> <th>3</th> <td></td> <td></td>	Barium	ppm	ASTM D5185m		3		
MagnesiumppmASTM D5185m2CalciumppmASTM D5185m843PhosphorusppmASTM D5185m1475ZincppmASTM D5185m364SulfurppmASTM D5185m21777CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>506SodiumppmASTM D5185m>207VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiltscalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLAppearancescalar*VisualNORMLNORMLAppearancescalar*VisualNORMLNORMLAppearancescalar*VisualNORMLNORMLCodorscalar*VisualNORMLNORMLAppearancescalar*VisualNORM	Molybdenum	ppm	ASTM D5185m		9		
CalciumppmASTM D5185m843PhosphorusppmASTM D5185m1475ZincppmASTM D5185m364SulfurppmASTM D5185m21777CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>506SodiumppmASTM D5185m>506SodiumppmASTM D5185m>207VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiltscalar*VisualNONENONESiltscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLCodorscalar*VisualNORMLNORMLCodorscalar*VisualNORMLNORMLCodorscalar*VisualNORMLNORMLCodorscalar*VisualNORML <td< td=""><td>Manganese</td><td>ppm</td><td>ASTM D5185m</td><td></td><th>8</th><td></td><td></td></td<>	Manganese	ppm	ASTM D5185m		8		
PhosphorusppmASTM D5185m1475ZincppmASTM D5185m364SulfurppmASTM D5185m21777CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>506SodiumppmASTM D5185m>506SodiumppmASTM D5185m>207VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiltscalar*VisualNONENONESiltscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLMultified Waterscalar*VisualNORMLNORMLAppearancescalar*VisualNORMLNORMLCodorscalar*VisualNORMLNORMLCodorscalar*VisualNORMLNORMLCodorscalar*	Magnesium	ppm	ASTM D5185m		2		
ZincppmASTM D5185m364SulfurppmASTM D5185m21777CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>506SodiumppmASTM D5185m>506PotassiumppmASTM D5185m>207VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLSemultified Waterscalar*VisualNORMLNORML	Calcium	ppm	ASTM D5185m		843		
SulfurppmASTM D5185m21777CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>506SodiumppmASTM D5185m>506PotassiumppmASTM D5185m>207VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG	Phosphorus	ppm	ASTM D5185m		1475		
CONTAMINANTSmethodlimit/basecurrenthistory1history2SiliconppmASTM D5185m>506SodiumppmASTM D5185m>207PotassiumppmASTM D5185m>207VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiltscalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG	Zinc	ppm	ASTM D5185m		364		
SiliconppmASTM D5185m>506SodiumppmASTM D5185m<1	Sulfur	ppm	ASTM D5185m		21777		
SodiumppmASTM D5185m<1PotassiumppmASTM D5185m>207VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG	CONTAMINANTS	5	method	limit/base	current	history1	history2
PotassiumppmASTM D5185m>207VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG	Silicon	ppm	ASTM D5185m	>50	6		
VISUALmethodlimit/basecurrenthistory1history2White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG	Sodium	ppm	ASTM D5185m		<1		
White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG	Potassium	ppm	ASTM D5185m	>20	7		
Yellow Metalscalar*VisualNONENONEPrecipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG	VISUAL		method	limit/base	current	history1	history2
Precipitatescalar*VisualNONENONESiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG	White Metal	scalar	*Visual	NONE	NONE		
Siltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG	Yellow Metal	scalar	*Visual	NONE	NONE		
Debrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG	Precipitate	scalar	*Visual	NONE	NONE		
Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG	Silt	scalar	*Visual	NONE	NONE		
Appearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.2NEG	Debris	scalar	*Visual	NONE	NONE		
Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.2 NEG	Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.2 NEG	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
Free Water scalar *Visual NEG	Emulsified Water	scalar	*Visual	>0.2	NEG		
45:01) Bev: 1 Submitted Bv: DABBELL ANDE		scalar	*Visual				



OIL ANALYSIS REPORT



Visc @ 40°C SAMPLE IMAGES	cSt	ASTM D445		90.9		
SAMPLE IMAGES						
		method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image
GRAPHS						
Ferrous Alloys	5		May2/24			
May2/24			May2/24			
Viscosity @ 40°C			Mar224			



Submitted By: DARRELL ANDES Page 2 of 2