



[RS0036629] Machine Id VOLVO A30G 752053

Component Front Axle

VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)

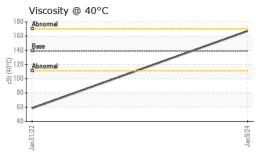
RECOMMENDATION
Resample at the next service interval to monitor.
WEAR
All component wear rates are normal.
CONTAMINATION
There is no indication of any contamination in the oil.

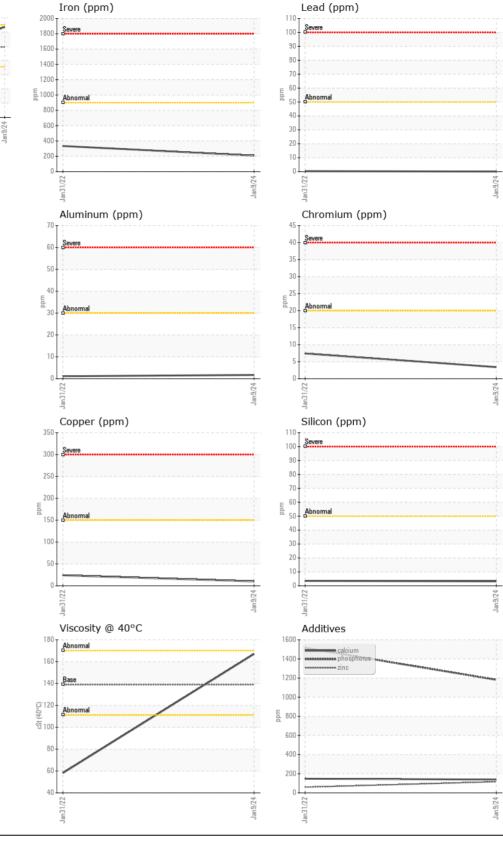
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The condition of the oil is acceptable for the time in service.

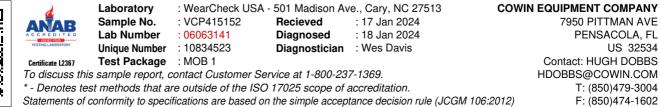
TestUOMMethodLimit/MCurrentHistory1History1Sample NumberCClient InfoVCP415152VCP346899Sample DatClient Info9 Jan 202231 Jan 2022Machine AgehrsClient Info9 Jan 202410Filter AgehrsClient Info00Gil ChangedClient InfoKChangedChangedFilter ChangedClient InfoN/AN/ASample StatusClient InfoN/AATTENTIONIronpmASTM D51858-20033NickelpmASTM D51858-20033NickelpmASTM D51858-20033SilverpmASTM D51858-20023SilverpmASTM D51858-20021AluminmpmASTM D51858-2000VanadiumpmASTM D51858-2000VanadiumpmASTM D51858-2000VanadiumpmASTM D51858-2000VanadiumpmASTM D51858-2000VanadiumpmASTM D51858-200CSilicorpmASTM D5185-200AVanadiumpmAST			·· ·· /				
Sample DateClient InfoO 9 Jan 202331 Jan 2022Machine AgehrsClient Info49562189Oil AgehrsClient Info00Filter AgehrsClient InfoCChangedOil ChangedClient InfoIN/AN/ASample StatusClient InfoIN/AN/ASample StatusNORMALATTENTONIronppmASTM D5185>900208334NickelppmASTM D5185>2037NickelppmASTM D5185>1023SilverppmASTM D5185>500AluminumppmASTM D5185>500AluminumppmASTM D5185>500VanadiumppmASTM D5185>501024VanadiumppmASTM D5185>200VanadiumppmASTM D5185>2010VanadiumppmASTM D5185>200VanadiumppmASTM D5185>2010VanadiumppmASTM D5185>2010VanadiumppmASTM D5185>2010VanadiumppmAS	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine AgeIrisClient Into49562189Oil AgehrsClient Into00Filter AgehrsClient IntoChangedChangedOil ChangedClient IntoN/AN/AFilter ChangedQClient IntoN/AN/ASample StatusVN/AN/AIronppmASTM D5185n>900208334IronppmASTM D5185n>2037NickelppmASTM D5185n>1023SilverppmASTM D5185n>3021AluminumppmASTM D5185n>5001AuandumppmASTM D5185n>501024VanadumppmASTM D5185n>501024VanadumppmASTM D5185n>5010VanadumppmASTM D5185n>5010VanadumppmASTM D5185n>5010ValencevisualNONENONENONEILGHTValencevisualNONENONENONESiliconppmASTM D5185n501024SiliconppmASTM D5185nscalaNONENONESiliconppmASTM D5185n <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>VCP415152</th> <th>VCP346899</th> <th></th>	Sample Number		Client Info		VCP415152	VCP346899	
Oil AgehrsClient InfoOOFilter AgehrsClient InfoChangedChangedOil ChangedClient InfoN/AN/AN/AFilter ChangedQClient InfoN/AN/ASample StatusNORMALATTENTIONIronppmASTM 558s-900208334ChromiumppmASTM 558s-900203NickelppmASTM 558s-1023SilverppmASTM 558s1023AluminumppmASTM 558s500-1LeadppmASTM 558s500-1VanduimppmASTM 558s500VanduimppmASTM 558s500VanduimppmASTM 558s500ValduimppmASTM 558s5010ValduimppmASTM 558s5034SiliconppmASTM 558s5034SiliconppmASTM 558s5034SiliconppmASTM 558s5034SiliconppmASTM 558s5010SiliconppmASTM 558s5013<	Sample Date		Client Info		09 Jan 2024	31 Jan 2022	
Filter Age OIInitial ImageImage 	Machine Age	hrs	Client Info		4956	2189	
Oli ChangedClient IntoChangedChangedFilter ChangedClient IntoN/AN/ASample StatusNORMALATTENTIONIronppmASTM D5185m>00208334ChromiumppmASTM D5185m>10208334NickelppmASTM D5185m>1023NickelppmASTM D5185m>10213SilverppmASTM D5185m500<1AluminumppmASTM D5185m500<1CopperppmASTM D5185m500<1VanadiumppmASTM D5185m500<1VanadiumppmASTM D5185m500<1Vellow Metalscalar'VisualNONENONELIGHTValdedscalar'VisualNONENONENONESiliconppmASTM D5185m5034Siliconscalar'VisualNONENONENONESiliconppmASTM D5185m5034Siliconscalar'VisualNONENONENONESiliconppmASTM D5185m>5034Soliconscalar'VisualNONENONENONE	Oil Age	hrs	Client Info		0	0	
Filter ChangedClient InfoN/AN/AATTENTIONSample StatusClient InfoN/AATTENTIONIronppmASTM D5185m>900208334ChromiumppmASTM D5185m>1023NickelppmASTM D5185m>1023NickelppmASTM D5185m>1023SilverppmASTM D5185m0<11AluminumppmASTM D5185m>30211LeadppmASTM D5185m>500<11CopperppmASTM D5185m>200<1VanadiumppmASTM D5185m>200<1VanadiumppmASTM D5185m>200<1Vellow Metalscalar*VisualNONENONELIGHTSiliconppmASTM D5185m>2022SiliconppmASTM D5185m>2022SiliconppmASTM D5185m>2022SiliconppmASTM D5185m>2022SiliconppmASTM D5185m>2022SiliconppmASTM D5185m>2022Sodar*VisualNONENONENONESodar<	Filter Age	hrs	Client Info		0	0	
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Iron ppm ASTM D5185m >900 208 334 Chromium ppm ASTM D5185m >20 3 7 Nickel ppm ASTM D5185m >10 2 3 Nickel ppm ASTM D5185m >10 0 <1 Silver ppm ASTM D5185m >30 2 1 Aluminum ppm ASTM D5185m >30 2 1 Lead ppm ASTM D5185m >50 0 <10 24 Vanadium ppm ASTM D5185m >20 0 <1 Vanadium ppm ASTM D5185m >20 0 <1 Vanadium ppm ASTM D5185m >20 0 <1 Vanadium ppm ASTM D5185m >50 3 4 Vanadium ppm ASTM D5185m	Filter Changed		Client Info		N/A	N/A	
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Titanium ppm ASTM D5185m 0 <1		ppm			-		
SilverppmASTM D5185m>01AluminumppmASTM D5185m>3021LeadppmASTM D5185m>500<1CopperppmASTM D5185m>1024TinppmASTM D5185m>200<1VanadiumppmASTM D5185m>200<1VanadiumppmASTM D5185m>200<1Vellow Metalscalar*VisualNONENONELIGHTYellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>5034SiliconppmASTM D5185m>2022WaterWC Method>0.2NEGNEGSilitscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORLNORMLNORMLGodrscalar*VisualNORLNORMLNORMLBoronppmASTM D5185m0.040BariumppmASTM D5185m0.0825MagnesiumppmASTM D5185m0.0825MagnesiumppmASTM D5185m0.0825				>10	_	-	
Aluminum ppm ASTM D5185m >30 2 1 Lead ppm ASTM D5185m >500 0 <1 Copper ppm ASTM D5185m >100 244 Tin ppm ASTM D5185m >20 0 <11 Vanadium ppm ASTM D5185m >50 3 4 Vellow Metal scalar *Visual NONE NONE Silicon ppm ASTM D5185m >20 2 2 Silit scalar *Visual NONE ILIGHT NONE Debris scalar *Visual NORML NORML		ppm			-		
Lead ppm ASTM D5185m >50 0 <1		ppm			-		
Copper ppm ASTM D5185m >150 10 24 Tin ppm ASTM D5185m >20 0 <1 Vanadium ppm ASTM D5185m >20 0 <1 White Metal scalar *Visual NONE NONE LIGHT Yellow Metal scalar *Visual NONE NONE NONE Silicon ppm ASTM D5185m >50 3 4 Potassium ppm ASTM D5185m >20 2 2 Water WC Method >0.2 NEG NEG Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NORML NORML Appearance scalar *Visual NORML NORML NORML Godor scalar *Visual		ppm		>30		1	
TinppmASTM D5185m>200<1		ppm		>50	-		
VanadiumppmASTM D5185mOOOWhite Metalscalar*VisualNONENONELIGHTYellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>5034PotassiumppmASTM D5185m>2022WaterWC Method>0.2NEGNEGSilitscalar*VisualNONELIGHTNONEDebrisscalar*VisualNONENONENONEAppearancescalar*VisualNORMNORMLNORMLAppearancescalar*VisualNORMNORMLNORMLOdorscalar*VisualNORMNORMLNORMLSodiumppmASTM D5185m37.9167200BariumppmASTM D5185m0.940ManganeseppmASTM D5185m0.869ManganeseppmASTM D5185m31110PhosphorusppmASTM D5185m38139148SolifurppmASTM D5185m38139148SolifurppmASTM D5185m38139148SolifurppmASTM D5185m38136155Manganes	Copper	ppm	ASTM D5185m	>150	10	24	
White Metalscalar*VisualNONENONELIGHTYellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>5034PotassiumppmASTM D5185m>2022WaterWC Method>0.2NEGNEGSilitscalar*VisualNONELIGHTNONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLSodiumppmASTM D5185m0.04BoronppmASTM D5185m0.040ManganeseppmASTM D5185m0.0825ManganeseppmASTM D5185m31110ManganeseppmASTM D5185m38139148PhosphorusppmASTM D5185m4611659SulfurppmASTM D5185m235262420622275	Tin	ppm	ASTM D5185m	>20	0	<1	
Yellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>5034PotassiumppmASTM D5185m>2022WaterWC Method>0.2NEGNEGSiltscalar*VisualNONELIGHTNONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLSodiumppmASTM D5185m04BoronppmASTM D5185m0.040ManganeseppmASTM D5185m0.0825ManganeseppmASTM D5185m31110CalciumppmASTM D5185m38139148PhosphorusppmASTM D5185m107711821515SulfurppmASTM D5185m235262420622275	Vanadium	ppm	ASTM D5185m		0	0	
SiliconppmASTM D5185m>5034PotassiumppmASTM D5185m>20222WaterWC Method>0.2NEGNEGSiltscalar*VisualNONELIGHTNONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLSodiumppmASTM D5185m379167200BariumppmASTM D5185m0.040ManganeseppmASTM D5185m0.0825ManganeseppmASTM D5185m31110CalciumppmASTM D5185m38139148PhosphorusppmASTM D5185m107711821515SulfurppmASTM D5185m235262420622275	White Metal	scalar	*Visual	NONE	NONE	LIGHT	
PotassiumppmASTM D5185m>2022WaterWC Method>0.2NEGNEGSiltscalar*VisualNONELIGHTNONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m04BoronppmASTM D5185m0.04MolybdenumppmASTM D5185m0.0825ManganeseppmASTM D5185m31110CalciumppmASTM D5185m107711821515PhosphorusppmASTM D5185m107711821515SulfurppmASTM D5185m107711821515SulfurppmASTM D5185m235262420622275SulfurppmASTM D5185m235262420622275	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
WaterWC Method>0.2NEGNEGSiltscalar*VisualNONELIGHTNONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m379167200BariumppmASTM D5185m0.040MolybdenumppmASTM D5185m0.0825ManganeseppmASTM D5185m31110CalciumppmASTM D5185m38139148PhosphorusppmASTM D5185m107711821515ZincppmASTM D5185m235262420622275	Silicon	ppm	ASTM D5185m	>50	3	4	
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Sand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m379167200BoronppmASTM D5185m0.040BariumppmASTM D5185m0.040MolybdenumppmASTM D5185m0.0825ManganeseppmASTM D5185m31110CalciumppmASTM D5185m38139148PhosphorusppmASTM D5185m107711821515ZincppmASTM D5185m235262420622275	Silt	scalar	*Visual	NONE	LIGHT	NONE	
Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLInormalInormalOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLInormalInormalEmulsified Waterscalar*Visual>0.2NEGNEGInercommercom	Debris	scalar	*Visual	NONE	NONE	NONE	
Odor scalar *Visual NORML NORML NORML Emulsified Water scalar *Visual >0.2 NEG NEG Sodium ppm ASTM D5185m 0 4 Boron ppm ASTM D5185m 379 167 200 Barium ppm ASTM D5185m 0.0 4 0 Molybdenum ppm ASTM D5185m 0.0 4 0 Manganese ppm ASTM D5185m 0.0 8 25 Magnesium ppm ASTM D5185m 31 11 0 Phosphorus ppm ASTM D5185m 38 139 148 Phosphorus ppm ASTM D5185m 1077 1182 1515 Zinc ppm ASTM D5185m 23526 24206 22275	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Emulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m37904BoronppmASTM D5185m3791672000BariumppmASTM D5185m0.040MolybdenumppmASTM D5185m0.869ManganeseppmASTM D5185m0.0825MagnesiumppmASTM D5185m31110CalciumppmASTM D5185m38139148PhosphorusppmASTM D5185m107711821515ZincppmASTM D5185m235262420622275	Appearance	scalar	*Visual	NORML	NORML	NORML	
Sodium ppm ASTM D5185m 0 4 Boron ppm ASTM D5185m 379 167 200 Barium ppm ASTM D5185m 0.0 4 0 Barium ppm ASTM D5185m 0.0 4 0 Molybdenum ppm ASTM D5185m 0.0 4 0 Manganese ppm ASTM D5185m 0.0 8 25 Magnesium ppm ASTM D5185m 31 111 0 Calcium ppm ASTM D5185m 38 139 148 Phosphorus ppm ASTM D5185m 1077 1182 1515 Zinc ppm ASTM D5185m 46 116 59 Sulfur ppm ASTM D5185m 23526 24206 22275	Odor	scalar	*Visual	NORML	NORML	NORML	
Boron ppm ASTM D5185m 379 167 200 Barium ppm ASTM D5185m 0.0 4 0 Molybdenum ppm ASTM D5185m 0.0 4 0 Manganese ppm ASTM D5185m 0.0 8 25 Magnesium ppm ASTM D5185m 31 11 0 Calcium ppm ASTM D5185m 38 139 148 Phosphorus ppm ASTM D5185m 1077 1182 1515 Zinc ppm ASTM D5185m 46 116 59 Sulfur ppm ASTM D5185m 23526 24206 22275	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Boron ppm ASTM D5185m 379 167 200 Barium ppm ASTM D5185m 0.0 4 0 Molybdenum ppm ASTM D5185m 0.0 4 0 Manganese ppm ASTM D5185m 0.0 8 25 Magnesium ppm ASTM D5185m 0.0 8 25 Calcium ppm ASTM D5185m 31 11 0 Phosphorus ppm ASTM D5185m 38 139 148 Zinc ppm ASTM D5185m 1077 1182 1515 Sulfur ppm ASTM D5185m 46 116 59	Sodium	ppm	ASTM D5185m		0	4	
Barium ppm ASTM D5185m 0.0 4 0 Molybdenum ppm ASTM D5185m 0.8 6 9 Manganese ppm ASTM D5185m 0.0 8 25 Magnesium ppm ASTM D5185m 0.0 8 25 Calcium ppm ASTM D5185m 31 11 0 Phosphorus ppm ASTM D5185m 38 139 148 Zinc ppm ASTM D5185m 1077 1182 1515 Sulfur ppm ASTM D5185m 23526 24206 22275				379	167	200	
Manganese ppm ASTM D5185m 0.0 8 25 Magnesium ppm ASTM D5185m 31 11 0 Calcium ppm ASTM D5185m 38 139 148 Phosphorus ppm ASTM D5185m 1077 1182 1515 Zinc ppm ASTM D5185m 46 116 59 Sulfur ppm ASTM D5185m 23526 24206 22275							
Manganese ppm ASTM D5185m 0.0 8 25 Magnesium ppm ASTM D5185m 31 11 0 Calcium ppm ASTM D5185m 38 139 148 Phosphorus ppm ASTM D5185m 1077 1182 1515 Zinc ppm ASTM D5185m 46 116 59 Sulfur ppm ASTM D5185m 23526 24206 22275	Barium			0.0	4	0	
Magnesium ppm ASTM D5185m 31 11 0 Calcium ppm ASTM D5185m 38 139 148 Phosphorus ppm ASTM D5185m 1077 1182 1515 Zinc ppm ASTM D5185m 46 116 59 Sulfur ppm ASTM D5185m 23526 24206 22275		ppm	ASTM D5185m				
Phosphorus ppm ASTM D5185m 1077 1182 1515 Zinc ppm ASTM D5185m 46 116 59 Sulfur ppm ASTM D5185m 23526 24206 22275	Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m	0.8	6	9	
Phosphorus ppm ASTM D5185m 1077 1182 1515 Zinc ppm ASTM D5185m 46 116 59 Sulfur ppm ASTM D5185m 23526 24206 22275	Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0.8 0.0	6 8	9 25	
Zinc ppm ASTM D5185m 46 116 59 Sulfur ppm ASTM D5185m 23526 24206 22275	Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0.8 0.0 31	6 8 11	9 25 0	
	Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0.8 0.0 31 38	6 8 11 139	9 25 0 148	
Visc @ 40°C cSt ASTM D445 139 167 ▲ 58.2	Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0.8 0.0 31 38 1077	6 8 11 139 1182	9 25 0 148 1515	
	Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0.8 0.0 31 38 1077 46	6 8 11 139 1182 116	9 25 0 148 1515 59	

Contact/Location: HUGH DOBBS - VOLVO8247









Report Id: VOLVO8247 [WUSCAR] 06063141 (Generated: 01/18/2024 12:32:47) Rev: 1

Contact/Location: HUGH DOBBS - VOLVO8247