

RECOMMENDATION

Machine Id VOLVO A25G 752598

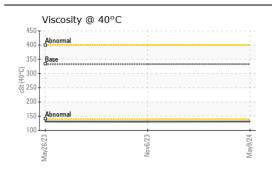
Front Axle

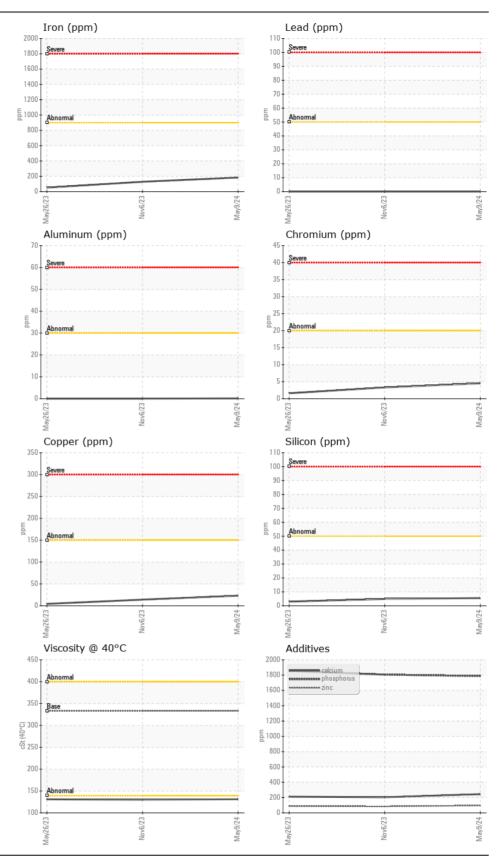
VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

RECOMMENDATION	lest	UON
Resample at the next service interval to monitor.	Sample Number	
	Sample Date	
	Machine Age	hrs
	Oil Age	hrs
	Filter Age	hrs
	Oil Changed	
	Filter Changed	
	Sample Status	
WEAR	Iron	ppm
	Chromium	ppm
All component wear rates are normal.	Nickel	ppm
	Titanium	ppm
	Silver	ppm
	Aluminum	ppm
	Lead	ppm
	Copper	ppm
	Tin	ppm
	Vanadium	ppm
	White Metal	scala
	Yellow Metal	scala
CONTAMINATION	Silicon	
	Potassium	ppm ppm
There is no indication of any contamination in the oil.	Water	ppm
	Silt	scala
	Debris	scala
	Sand/Dirt	scala
	Appearance	scala
	Odor	scala
	Emulsified Water	scala
	Linuisilieu Walei	
FLUID CONDITION		
FLUID CONDITION	Sodium	ppm
FLUID CONDITION The condition of the oil is acceptable for the time in service.	Sodium Boron	ppm ppm
	Sodium Boron Barium	ppm ppm ppm
	Sodium Boron Barium Molybdenum	ppm ppm ppm
	Sodium Boron Barium	ppm ppm ppm ppm
	Sodium Boron Barium Molybdenum Manganese	ppm ppm ppm ppm ppm
	Sodium Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm
	Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm
	Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm ppm

Sample NumberClient InfoVCP442875VCP438312VCP43883Sample DateClient InfoI99 May 202466 Nov 202326 May 2023Machine AgehrsClient InfoI23251489528Oil AgehrsClient InfoI000Filter AgehrsClient InfoNo ChangedChangedN/ASample StatusClient InfoINo ChangedNoRMALABNORMALSample StatusVV4302413IronpmASTM D5185m>90018312852ChromiumpmASTM D5185m>10432NickelpmASTM D5185m>10400NickelpmASTM D5185m>10000SilverpmASTM D5185m>30<1100AuminumpmASTM D5185m>501000AnadiumpmASTM D5185m>5011<110VanadiumpmASTM D5185m>501653Yallow MetalscalarYusualNONENONENONENONESiliconpmASTM D5185m>50653Yallow MetalscalarYusualNONENONENONENONESiliconpmASTM D5185m>50653Yallow MetalscalarYusualNORENONE <t< th=""><th>Test</th><th>UOM</th><th>Method</th><th>Limit/Abn</th><th>Current</th><th>History1</th><th>History2</th></t<>	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine AgehrsClient Info22251489528Oil AgehrsClient Info000Filter AgehrsClient InfoNNC ChangedChangedChangedFilter ChangedIClient InfoNNC ChangedNANASample StatusVVNSRMANORMALABNORMALIronppmASTM D5185m>0018312852ChomiumppmASTM D5185m>1022<1NickelppmASTM D5185m>1022<1TitaniumppmASTM D5185m>10000SilvenppmASTM D5185m>10000LeadppmASTM D5185m>101000CopperppmASTM D5185m>1023144TinppmASTM D5185m>101000VanadiumppmASTM D5185m>10101010VanadiumppmASTM D5185m>10101010VanadiumppmASTM D5185m>10101010VanadiumppmASTM D5185m>10101010VanadiumppmASTM D5185m>10101010VanadiumppmASTM D5185m>10101010VanadiumppmASTM D5185m>10101010V	Sample Number		Client Info		VCP442875	VCP433512	VCP418883
Oil AgehrsClient InfoIo00Filter AgehrsClient InfoNo ChangedChangedChangedOil ChangedClient InfoNo ChangedChangedN/ASample StatusClient InfoNo RMALNORMALABNORMALIronppmASTM D518m>00018312852ChromiumppmASTM D518m>00432NickelppmASTM D518m>10022<1TitaniumppmASTM D518m100000SilverppmASTM D518m>001000LeadppmASTM D518m>00000CopperppmASTM D518m>001000ValuminumppmASTM D51	Sample Date		Client Info		09 May 2024	06 Nov 2023	26 May 2023
Filter AgehrsClient InfoIoNot ChangedChangedChangedChangedGliert LinfoLeint InfoNo ChangedChangedN/ASample StatusStample StatusNorRMALNORMALABNORMALIronppmASTM D518m>200I 8312852ChromiumppmASTM D518m>200I22<1NickelppmASTM D518m>200I000NickelppmASTM D518m2I000SilverppmASTM D518m>00I000LeadppmASTM D518m>50II100CopperppmASTM D518m>50III00VandariumppmASTM D518m>50IIII0VandariumppmASTM D518m>50IIIIIIValderppmASTM D518m>50II	Machine Age	hrs	Client Info		2325	1489	528
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Filter Changed Sample StatusClient InfoChanged ChangedChanged NORMALNASample StatusClient InfoNORMALNORMALABNORMALIronppmASTM D5185n>90018312852ChromiumppmASTM D5185n>20432NickelppmASTM D5185n>1022<1TitaniumppmASTM D5185n>102000SilverppmASTM D5185n>30<1100LeadppmASTM D5185n>50000CopperppmASTM D5185n>201<10VanadiumppmASTM D5185n>201<10VanadiumppmASTM D5185n>201<10VanadiumppmASTM D5185n>201<10VanadiumppmASTM D5185n>50653Valow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185n>20232VaterWC Method>.22REGNORENONESiliconppmASTM D5185n>20232VaterWC Method>.22NEGNORENORESiliconppmASTM D5185n201LiGHTMODERSodiumppmASTM D5185n0.0NORENORENORE </th <th>Filter Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	Filter Age	hrs	Client Info		0	0	0
Sample StatusVernameNORMALNORMALABNORMALIronppmASTM D5186n>90001833128052ChromiumppmASTM D5186n>1022<1NickelppmASTM D5186n>1022<1TitaniumppmASTM D5186n0000SilverppmASTM D5186n>30000AuminumppmASTM D5186n>300000LeadppmASTM D5186n>5000000CopperppmASTM D5186n>50010000VanadiumppmASTM D5186n>50010000VanadiumppmASTM D5186n>50010000VanadiumppmASTM D5186n>500RONENONENONENONEVellow Metalscalar"VisualNONENONENONENONENONESiliconppmASTM D5186n>201232Vellow Metalscalar"VisualNONENONENONENONESiliconppmASTM D5186n>20REGNONENONESolidonppmASTM D5186n20REGNONENONEDebrisscalar"VisualNORENORENORENORESodiumscalar"VisualNORENORENORENORE <t< th=""><th>Oil Changed</th><th></th><th>Client Info</th><th></th><th>Not Changd</th><th>Changed</th><th>Changed</th></t<>	Oil Changed		Client Info		Not Changd	Changed	Changed
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ChromiumppmASTM D5185m>20432NickelppmASTM D5185m>1022<1TitaniumppmASTM D5185m0000SilverppmASTM D5185m0000AluminumppmASTM D5185m>30<100LeadppmASTM D5185m>50000CopperppmASTM D5185m>501<144TinppmASTM D5185m>501<144VanadiumppmASTM D5185m>0000VanadiumppmASTM D5185m>50653Yellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>50653PotassiumppmASTM D5185m>50653PotassiumppmASTM D5185m>20232WaterWC Method>0.2NEGNEGNONESiliconscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONEAppearancescalar*VisualNORHNORHLNORHLNORHLAppearancescalar*VisualNORNORMLNORHLNORHLBoronppmASTM D5185m0.0000 <td< th=""><th>Sample Status</th><th></th><th></th><th></th><th>NORMAL</th><th>NORMAL</th><th>ABNORMAL</th></td<>	Sample Status				NORMAL	NORMAL	ABNORMAL
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TitaniumppmASTM D5185mO00SilverppmASTM D5185m>30<100AluminumppmASTM D5185m>30<100LeadppmASTM D5185m>50000CopperppmASTM D5185m>15023144TinppmASTM D5185m>201<10VanadiumppmASTM D5185m>201<10VanadiumppmASTM D5185m>201<10VanadiumppmASTM D5185m>201<10Vallow Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONE100SiliconppmASTM D5185m>20232WaterWC Method>0.2NEGNONENONENONESilitscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNORLNORMLNORMLNORMLAppearancescalar*VisualNORLNORMLNORMLNORMLGotorscalar*VisualNORLNORMLNORMLNORMLBoronppmASTM D5185m0.0000MolybdenumppmASTM D5185m0.0Q11BariumppmASTM D5185m0.0Q1					-		
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PotassiumppmASTM D5185m>20232WaterWC Method>0.2NEGNEGNEGSiltscalar*VisualNONENONENONEDebrisscalar*VisualNONELIGHTLIGHTMODERSand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m111171173176BariumppmASTM D5185m0.0000MolybdenumppmASTM D5185m0.0964MagnesiumppmASTM D5185m93244204212PhosphorusppmASTM D5185m920178718061854ZincppmASTM D5185m104968488SulfurppmASTM D5185m201791871922036	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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Boron ppm ASTM D5185m 111 171 173 176 Barium ppm ASTM D5185m 0.0 0 0 0 Molybdenum ppm ASTM D5185m 0.0 0 2 1 2 Manganese ppm ASTM D5185m 0.0 9 6 4 Magnesium ppm ASTM D5185m 39 0 1 0 Calcium ppm ASTM D5185m 93 244 204 212 Phosphorus ppm ASTM D5185m 920 1787 1806 1854 Zinc ppm ASTM D5185m 104 96 84 88 Sulfur ppm ASTM D5185m 20179 18719 22036	Sand/Dirt Appearance Odor	scalar scalar scalar	*Visual *Visual *Visual	NORML NORML	NONE NORML NORML	NONE NORML NORML	NONE NORML NORML
Barium ppm ASTM D5185m 0.0 0 0 0 Molybdenum ppm ASTM D5185m 0.9 2 1 2 Manganese ppm ASTM D5185m 0.0 9 6 4 Magnesium ppm ASTM D5185m 39 0 1 0 Calcium ppm ASTM D5185m 93 244 204 212 Phosphorus ppm ASTM D5185m 920 1787 1806 1854 Zinc ppm ASTM D5185m 104 96 84 88 Sulfur ppm ASTM D5185m 20179 18719 22036	Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual	NORML NORML	NONE NORML NORML NEG	NONE NORML NORML	NONE NORML NORML NEG
Molybdenum ppm ASTM D5185m 0.9 2 1 2 Manganese ppm ASTM D5185m 0.0 9 6 4 Magnesium ppm ASTM D5185m 39 0 1 0 Calcium ppm ASTM D5185m 93 244 204 212 Phosphorus ppm ASTM D5185m 920 1787 1806 1854 Zinc ppm ASTM D5185m 104 96 84 88 Sulfur ppm ASTM D5185m 20179 20799 18719 22036	Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar ppm	*Visual *Visual *Visual *Visual ASTM D5185m	NONE NORML NORML >0.2	NONE NORML NORML NEG 2	NONE NORML NORML NEG	NONE NORML NORML NEG
Manganese ppm ASTM D5185m 0.0 9 6 4 Magnesium ppm ASTM D5185m 39 0 1 0 Calcium ppm ASTM D5185m 93 244 204 212 Phosphorus ppm ASTM D5185m 920 1787 1806 1854 Zinc ppm ASTM D5185m 104 96 84 88 Sulfur ppm ASTM D5185m 20179 20799 18719 22036	Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual ASTM D5185m	NORML NORML >0.2	NONE NORML NORML NEG 2 171	NONE NORML NORML NEG 1 173	NONE NORML NORML NEG <1 176
Magnesium ppm ASTM D5185m 39 0 1 0 Calcium ppm ASTM D5185m 93 244 204 212 Phosphorus ppm ASTM D5185m 920 1787 1806 1854 Zinc ppm ASTM D5185m 104 96 84 88 Sulfur ppm ASTM D5185m 20179 20799 18719 22036	Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar ppm ppm ppm	*Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	NONE NORML >0.2 111 0.0	NONE NORML NORML NEG 2 171 0	NONE NORML NEG 1 173 0	NONE NORML NEG <1 176 0
Calcium ppm ASTM D5185m 93 244 204 212 Phosphorus ppm ASTM D5185m 920 1787 1806 1854 Zinc ppm ASTM D5185m 104 96 84 88 Sulfur ppm ASTM D5185m 20179 20799 18719 22036	Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar scalar ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 1111 0.0 0.9	NONE NORML NORML NEG 2 171 0 2	NONE NORML NEG 1 173 0 1	NONE NORML NORML NEG <1 176 0 2
Phosphorus ppm ASTM D5185m 920 1787 1806 1854 Zinc ppm ASTM D5185m 104 96 84 88 Sulfur ppm ASTM D5185m 20179 20799 18719 22036	Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar ppm ppm ppm ppm	*Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML >0.2 1111 0.0 0.9 0.0	NONE NORML NORML NEG 2 171 0 2 9	NONE NORML NORML NEG 1 173 0 1 6	NONE NORML NEG <1 176 0 2 4
Zinc ppm ASTM D5185m 104 96 84 88 Sulfur ppm ASTM D5185m 20179 20799 18719 22036	Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar scalar scalar ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 1111 0.0 0.9 0.0 39	NONE NORML NORML NEG 2 171 0 2 9 0	NONE NORML NORML NEG 1 173 0 1 173 0 1 6 1	NONE NORML NEG <1 176 0 2 4 0
Sulfur ppm ASTM D5185m 20179 20799 18719 22036	Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML >0.2 1111 0.0 0.9 0.0 39 93	NONE NORML NORML NEG 2 171 0 2 9 0 2 44	NONE NORML NORML NEG 1 173 0 1 6 1 6 1 204	NONE NORML NEG <1 176 0 2 4 0 212
	Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium Phosphorus	scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 1111 0.0 0.9 0.0 39 93 920	NONE NORML NORML NEG 2 171 0 2 9 0 244 1787	NONE NORML NORML NEG 1 173 0 1 173 0 1 6 1 204 1806	NONE NORML NEG <1 176 0 2 4 0 212 1854
	Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium Phosphorus Zinc	scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 1111 0.0 0.9 0.0 39 93 930 104	NONE NORML NORML 2 171 0 2 9 0 244 1787 96	NONE NORML NORML NEG 1 173 0 173 0 1 6 1 204 1806 84	NONE NORML NEG <1 176 0 2 4 0 212 1854 88

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Sample No. Received 5151 DR MARTIN LUTHER KING BLVD : VCP442875 : 13 May 2024 Lab Number : 06177515 Tested : 14 May 2024 FORT MYERS, FL Unique Number : 11023568 : 14 May 2024 - Wes Davis US 33905 Diagnosed Test Package : MOB 1 Contact: TODD LARK Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. tlark@altaequipfl.com * - 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) F: (239)481-3302

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Laboratory

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