

#### NORMAL **WEAR** CONTAMINATION NORMAL **FLUID CONDITION** NORMAL



[529295 STANDARD SAND] VOLVO L250H 1232

VOLVO WB 102 (--- GAL)

## RECOMMENDATION

Resample at the next service interval to monitor.

### **WEAR**

All component wear rates are normal.

## CONTAMINATION

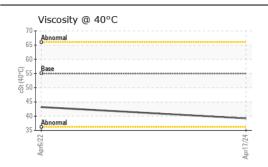
There is no indication of any contamination in the oil.

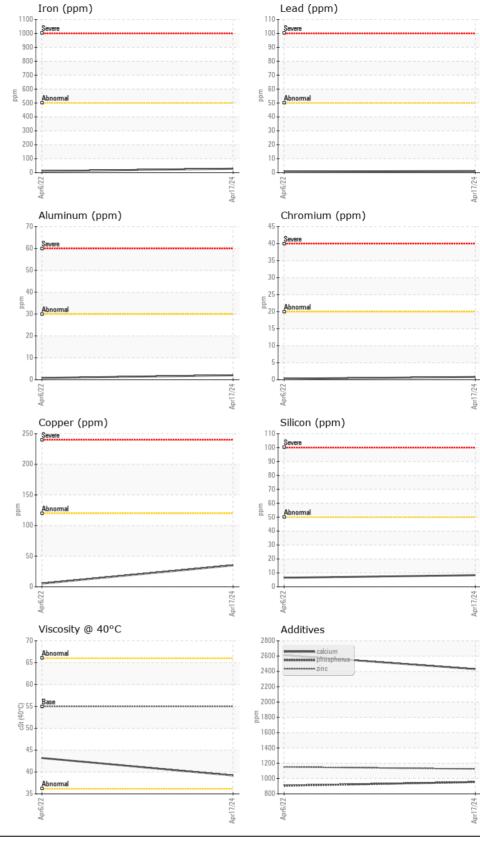
# **FLUID CONDITION**

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

TestUOMMethodLimit/AbCurrentHistory1History1Sample NumberClient InfoVCP434720VCP356801Sample DateClient Info17 Apr 202406 Apr 2022Machine AgehrsClient Info00Oil AgehrsClient Info00Filter AgehrsClient InfoNot ChangdNot ChangdFilter AngedClient InfoNot ChangdNot ChangdFilter ChangedClient InfoNot ChangdNot ChangdSample StatusNot ChangdNot ChangdChromiumppmASTM D5185>5002810NickelppmASTM D5185>10<1<1NickelppmASTM D5185>10<1<1SilverppmASTM D5185>501<1AluminumppmASTM D5185>201<1NorduitppmASTM D5185>201<1VanadiumppmASTM D5185>201<1VanadiumppmASTM D5185>201<1VanadiumppmASTM D5185>2020VanadiumppmASTM D5185>2020VanadiumppmASTM D5185>2020							
Sample DateClient InfoI7 Apr 202406 Apr 2022Machine AgehrsClient InfoI16678648Oil AgehrsClient Info00Filter AgehrsClient InfoNot ChangdNot ChangdOil ChangedClient InfoNot ChangdNot ChangdFilter ChangedClient InfoNot ChangdNot ChangdSample StatusClient InfoNot ChangdNot ChangdIronppmASTM D5185>5002810NickelppmASTM D5185>20<1<1NickelppmASTM D5185>10<1<1NickelppmASTM D5185>20<1<1NickelppmASTM D5185>201<1NickelppmASTM D5185>501<1SilverppmASTM D5185>20<1<1VanadiumppmASTM D5185>20<1<1VanadiumppmASTM D5185>20<1<1VanadiumppmASTM D5185>20<1<1VanadiumppmASTM D5185>20<1<1VanadiumppmASTM D5185>20<1<1VanadiumppmASTM D5185>20<1<1Vanadi	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine AgehrsClient Info116678648Oil AgehrsClient Info00Filter AgehrsClient InfoNot ChangdNot ChangdOil ChangedClient InfoNot ChangdNot ChangdFilter ChangedClient InfoNot ChangdNot ChangdSample StatusVNorRMALNorRMALIronppmASTM D5185n>5002810NickelppmASTM D5185n>20<1<1NickelppmASTM D5185n>10<1<1SilverppmASTM D5185n>302<1AluminumppmASTM D5185n>501<1QanadumppmASTM D5185n>501<1VanadumppmASTM D5185n>20<1<1VanadumppmASTM D5185n>20<1<1VanadumppmASTM D5185n>20<1<1VanadumppmASTM D5185n>20<1<1VanadumppmASTM D5185n>20<1<1VanadumppmASTM D5185n>20<1<1VanadumppmASTM D5185n>20<1<1VanadumppmASTM D5185n>20<1<1Vanadum <th>Sample Number</th> <th></th> <th>Client Info</th> <th></th> <th>VCP443720</th> <th>VCP356801</th> <th></th>	Sample Number		Client Info		VCP443720	VCP356801	
Oil AgehrsClient InfoO0Filter AgehrsClient InfoNot ChangdNot ChangdOil ChangedClient InfoNot ChangdNot ChangdFilter ChangedQClient InfoNot ChangdNot ChangdSample StatusStill D5185m50028100IronppmASTM D5185m50028100ChromiumppmASTM D5185m50041<1NickelppmASTM D5185m10<1<1SilverppmASTM D5185m5001<1AluminumppmASTM D5185m5001<1LeadppmASTM D5185m5001<1VanadumppmASTM D5185m5001<1VanadumppmASTM D5185m5001<1VanadumppmASTM D5185m5001<1VanadumppmASTM D5185m50086SiliconppmASTM D5185m50086SiliconppmASTM D5185m50086SiliconppmASTM D5185m50086SiliconppmASTM D5185m50086SiliconppmASTM D5185m500NONENONE<	Sample Date		Client Info		17 Apr 2024	06 Apr 2022	
Filter Age OIInitialInitialInitialInitialInitialInitialInitialCil Changed Sample StatusCilent InfoNot ChangdNot ChangdFilter Changed Sample StatusCilent InfoNot ChangdNot ChangdIronppmASTM D5185m>5002810ChromiumppmASTM D5185m>10<1<1NickelppmASTM D5185m>10<1<1NickelppmASTM D5185m>10<1<1SilverppmASTM D5185m>302<1<AluminumppmASTM D5185m>501<1AluminumppmASTM D5185m>501<1CopperppmASTM D5185m>20<1<1VanadiumppmASTM D5185m>20<1<1VanadiumppmASTM D5185m>20<1<1Vellow Metalscalar'VisualNONENONENONESiliconppmASTM D5185m>5086Valdevcalar'VisualNONENONENONESiliconppmASTM D5185m>5020SiliconppmASTM D5185m>502NONESiliconppmASTM D5185m>502NONE	Machine Age	hrs	Client Info		11667	8648	
Cili Changed Filter Changed Sample StatusCilent InfoNot ChangdNot ChangdFilter Changed Sample StatusCilent InfoNot ChangdNot ChangdIronppmASTM D5185m>5002810ChromiumppmASTM D5185m>20<1<1NickelppmASTM D5185m>10<1<1NickelppmASTM D5185m>10<1<1SilverppmASTM D5185m>501<1AluminumppmASTM D5185m>501<1CopperppmASTM D5185m>501<1VanadiumppmASTM D5185m>20<1<1VanadiumppmASTM D5185m>20<1<1Vellow Metalscalar'VisualNONENONENONEVellow Metalscalar'VisualNONENONENONESiliconppmASTM D5185m>2020SiliconppmASTM D5185m>2020SiliconppmASTM D5185m>2020SiliconppmASTM D5185m>2020SiliconppmASTM D5185m>2020SoliconppmASTM D5185m>20REGSolicon <th>Oil Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th>0</th> <th></th>	Oil Age	hrs	Client Info		0	0	
Filter ChangelClient InfoNot ChangelNot ChangelSample StatusClient InfoNORMALNORMALNORMALIronppmASTM D5185m>5002810IronppmASTM D5185m>10<1<1NickelppmASTM D5185m>10<1<1NickelppmASTM D5185m>10<1<1SilverppmASTM D5185m0<1<1AluminumppmASTM D5185m>01<1LeadppmASTM D5185m>20<1<1CopperppmASTM D5185m>20<1<1VanadiumppmASTM D5185m>20<1<1VanadiumppmASTM D5185m>20<1<1VanadiumppmASTM D5185m>20<1<1VanadiumppmASTM D5185m>20<1<1Valdow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>2020SiliconppmASTM D5185m>2020SiliconppmASTM D5185m>2020SiliconppmASTM D5185m>2020SoliconppmASTM D5185m>20NONENONE <t< th=""><th>Filter Age</th><th>hrs</th><th>Client Info</th><th></th><th>0</th><th>0</th><th></th></t<>	Filter Age	hrs	Client Info		0	0	
Sample StatusNORMALNORMALNORMALIronppmASTM D5185m>5002810ChromiumppmASTM D5185m>10<1<1NickelppmASTM D5185m>10<1<1TitaniumppmASTM D5185m>10<1<1SilverppmASTM D5185mS02<1<AluminumppmASTM D5185m>5001<1LeadppmASTM D5185m>5001<1CopperppmASTM D5185m>20<1<1VanadiumppmASTM D5185m>20<1<1VanadiumppmASTM D5185m>20<1<1Vellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>5086SiliconppmASTM D5185m>2020SiliconppmASTM D5185m>2020SiliconppmASTM D5185m>2020SiliconppmASTM D5185m>2020SiliconppmASTM D5185m>2020SiliconppmASTM D5185m>2020SoliconppmASTM D5185m>20NONENONE<	Oil Changed		Client Info		Not Changd	Not Changd	
Iron  ppm  ASTM D5185n  >500  28  10     Chromium  ppm  ASTM D5185n  >20  <1  <1     Nickel  ppm  ASTM D5185n  >10  <1  <1     Titanium  ppm  ASTM D5185n  >10  <1  <1     Aluminum  ppm  ASTM D5185n  >30  2  <1     Aluminum  ppm  ASTM D5185n  >30  2  <1     Lead  ppm  ASTM D5185n  >50  1  <1     Vanadium  ppm  ASTM D5185n  >20  <1  <1     Vanadium  ppm  ASTM D5185n  >20  <1  <1     Vanadium  ppm  ASTM D5185n  >20  S8  6     Vanadium  ppm  ASTM D5185n  >20  2  0     Vanadium  ppm  ASTM D5185n  >20<	Filter Changed		Client Info		Not Changd	Not Changd	
Chromium  ppm  ASTM D5185m  >20  <1	Sample Status				NORMAL	NORMAL	
Chromium  ppm  ASTM D5185m  >20  <1	Iron	nnm	4STM D5185m	<u>\</u> 500	28	10	
NickelppmASTM D5185m>10<1					-		
Titanium  ppm  ASTM D5185m  1  <1							
Silver  ppm  ASTM D5185m  > 0  <1				210			
Aluminum  ppm  ASTM D5185m  >30  2  <1					-		
Lead  ppm  ASTM D5185m  >50  1  <1				>30	-		
Copper  ppm  ASTM D5185m  >120  35  5     Tin  ppm  ASTM D5185m  >20  <1  <1     Vanadium  ppm  ASTM D5185m  >20  <1  0     White Metal  scalar  *Visual  NONE  NONE  NONE     Yellow Metal  scalar  *Visual  NONE  NONE  NONE     Silicon  ppm  ASTM D5185m  >50  8  6     Potassium  ppm  ASTM D5185m  >20  2  0     Water  WC Method  >0.2  NEG  NONE     Debris  scalar  *Visual  NONE  NONE  NONE     Appearance  scalar  *Visual  NORML  NORML  NORML     Godr  scalar  *Visual  NORML  NORML  NORML     Appearance  scalar  *Visual					_		
TinppmASTM D5185m>20<1					-		
Vanadium  ppm  ASTM D5185m   <1							
White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>5086PotassiumppmASTM D5185m>2020WaterWC Method>0.2NEGNEGSilitscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLSodiumppmASTM D5185m414BoronppmASTM D5185m10MalganeseppmASTM D5185m1ManganeseppmASTM D5185m1620PhosphorusppmASTM D5185m11251152SulfurppmASTM D5185m11251152				- 20			
SiliconppmASTM D5185m>5086PotassiumppmASTM D5185m>2020WaterWC Method>0.2NEGNEGSiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLSodiumppmASTM D5185m- </th <th></th> <th></th> <th></th> <th>NONE</th> <th></th> <th></th> <th></th>				NONE			
SiliconppmASTM D5185m>5086PotassiumppmASTM D5185m>2020WaterWC Method>0.2NEGNEGSiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLSodiumppmASTM D5185m-0.2NEGNEGBoronppmASTM D5185m-10MalganeseppmASTM D5185m10MagnesiumppmASTM D5185m12MagnesiumppmASTM D5185m-1620PhosphorusppmASTM D5185m-1162612PhosphorusppmASTM D5185m-11251152SulfurppmASTM D5185m-32952409	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
PotassiumppmASTM D5185m>2020WaterWC Method>0.2NEGNEGSiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGSodiumppmASTM D5185m44BariumppmASTM D5185m10MolybdenumppmASTM D5185m111MagnesiumppmASTM D5185m24302612PhosphorusppmASTM D5185m954907ZincppmASTM D5185m11251152SulfurppmASTM D5185m2409							
WaterWC Method>0.2NEGNEGSiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m<	Silicon	ppm	ASTM D5185m	>50	8	6	
Siltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLCodorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m44BoronppmASTM D5185m10BariumppmASTM D5185m11MolybdenumppmASTM D5185m11MagnesiumppmASTM D5185m1620PhosphorusppmASTM D5185m954907ZincppmASTM D5185m11251152SulfurppmASTM D5185m2409	Potassium	ppm	ASTM D5185m	>20	2	0	
Debrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m<14BoronppmASTM D5185m995944BariumppmASTM D5185m10MolybdenumppmASTM D5185m111MagnesiumppmASTM D5185m116200PhosphorusppmASTM D5185m24302612PhosphorusppmASTM D5185m11251152SulfurppmASTM D5185m2409	Water		WC Method	>0.2	NEG	NEG	
Sand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m<14BoronppmASTM D5185m9594BariumppmASTM D5185m10MolybdenumppmASTM D5185m111MagnesiumppmASTM D5185m116200CalciumppmASTM D5185m24302612PhosphorusppmASTM D5185m11251152ZincppmASTM D5185m32952409	Silt	scalar	*Visual	NONE	NONE	NONE	
Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m<14BoronppmASTM D5185m9994BariumppmASTM D5185m10MolybdenumppmASTM D5185m111ManganeseppmASTM D5185m11620MagnesiumppmASTM D5185m24302612PhosphorusppmASTM D5185m9954907ZincppmASTM D5185m11251152SulfurppmASTM D5185m2409	Debris	scalar	*Visual	NONE	NONE		
Odor  scalar  *Visual  NORML  NORML  NORML     Emulsified Water  scalar  *Visual  >0.2  NEG  NEG     Sodium  ppm  ASTM D5185m   <1  4     Boron  ppm  ASTM D5185m  95  94     Barium  ppm  ASTM D5185m  1  0     Molybdenum  ppm  ASTM D5185m  11  1     Maganese  ppm  ASTM D5185m  1  <1     Magnesium  ppm  ASTM D5185m  16  20     Phosphorus  ppm  ASTM D5185m  2430  2612     Phosphorus  ppm  ASTM D5185m  954  907     Zinc  ppm  ASTM D5185m  1125  1152     Sulfur  ppm  ASTM D5185m  2409	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Emulsified Water  scalar  *Visual  >0.2  NEG  NEG     Sodium  ppm  ASTM D5185m  <1  4     Boron  ppm  ASTM D5185m  95  94     Barium  ppm  ASTM D5185m  1  0     Molybdenum  ppm  ASTM D5185m  1  1     Manganese  ppm  ASTM D5185m  1  <1     Magnesium  ppm  ASTM D5185m  116  20     Calcium  ppm  ASTM D5185m  2430  2612     Phosphorus  ppm  ASTM D5185m  954  907     Zinc  ppm  ASTM D5185m  3295  2409	Appearance	scalar	*Visual	NORML			
Sodium  ppm  ASTM D5185m  <1	Odor	scalar	*Visual	NORML	NORML	NORML	
Boron  ppm  ASTM D5185m  95  94     Barium  ppm  ASTM D5185m  1  0     Molybdenum  ppm  ASTM D5185m  1  1     Manganese  ppm  ASTM D5185m  1      Magnesium  ppm  ASTM D5185m  16  20     Calcium  ppm  ASTM D5185m  2430  2612     Phosphorus  ppm  ASTM D5185m  954  907     Zinc  ppm  ASTM D5185m  1125  1152     Sulfur  ppm  ASTM D5185m  3295  2409	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Boron  ppm  ASTM D5185m  95  94     Barium  ppm  ASTM D5185m  1  0     Molybdenum  ppm  ASTM D5185m  1  1     Manganese  ppm  ASTM D5185m  1      Magnesium  ppm  ASTM D5185m  16  20     Calcium  ppm  ASTM D5185m  2430  2612     Phosphorus  ppm  ASTM D5185m  954  907     Zinc  ppm  ASTM D5185m  1125  1152     Sulfur  ppm  ASTM D5185m  3295  2409	Sodium	ppm	ASTM D5185m		<1	4	
Barium  ppm  ASTM D5185m  1  0     Molybdenum  ppm  ASTM D5185m  1  1     Manganese  ppm  ASTM D5185m  1  <1	Boron		ASTM D5185m			94	
Manganese  ppm  ASTM D5185m  1  <1	Barium		ASTM D5185m		1	0	
Manganese  ppm  ASTM D5185m  1  <1	Molybdenum		ASTM D5185m		1	1	
Magnesium  ppm  ASTM D5185m  16  20     Calcium  ppm  ASTM D5185m  2430  2612     Phosphorus  ppm  ASTM D5185m  954  907     Zinc  ppm  ASTM D5185m  1125  1152     Sulfur  ppm  ASTM D5185m  3295  2409			ASTM D5185m		1	<1	
Phosphorus  ppm  ASTM D5185m  954  907     Zinc  ppm  ASTM D5185m  1125  1152     Sulfur  ppm  ASTM D5185m  3295  2409	Magnesium	ppm	ASTM D5185m		16	20	
Phosphorus  ppm  ASTM D5185m  954  907     Zinc  ppm  ASTM D5185m  1125  1152     Sulfur  ppm  ASTM D5185m  3295  2409	Calcium	ppm	ASTM D5185m		2430	2612	
Zinc  ppm  ASTM D5185m  1125  1152     Sulfur  ppm  ASTM D5185m  3295  2409	Phosphorus		ASTM D5185m		954	907	
	Zinc		ASTM D5185m		1125	1152	
	Sulfur	ppm	ASTM D5185m		3295	2409	
	Visc @ 40°C		ASTM D445	55	39.2	43.2	

Contact/Location: KENNY HANEY - VOLVO0093







Contact/Location: KENNY HANEY - VOLVO0093 Page 2 of 2