

Machine Id VOLVO A45G 353131

Wet Disc Brake

VOLVO WET BRAKE TRANSAXLE OIL (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

V	V	F	Δ	R
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The copper level is abnormal. The iron level is abnormal.

CONTAMINATION

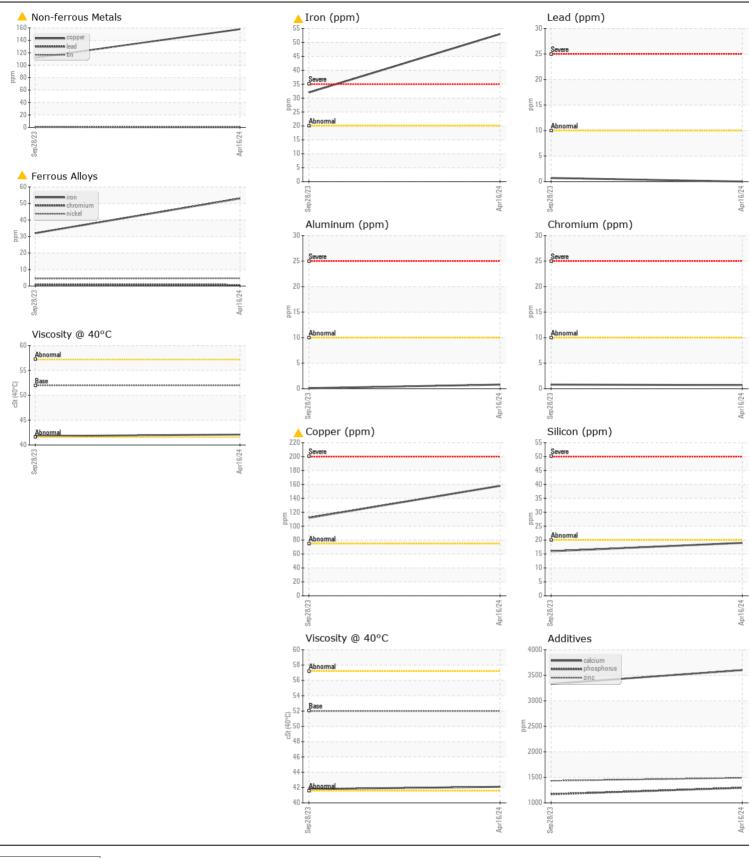
There is no indication of any contamination in the oil.

FLUID	CO	NDIT	ION

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

TestUOMMethodLimit/MoCurrentHistory1History2Sample NumberClient InfoIGVCP43730VCP317726Sample DateClient InfoIG35262371Machine AgehrsClient InfoIC00Filter AgehrsClient InfoICNot ChangedIncoOil ChangedClient InfoICNot ChangedNot ChangedFilter ChangedClient InfoICNot ChangedNor MALSample StatusClient InfoICSample StatusSample StatusIronppmASTM D5185>100ClientNickelppmASTM D5185>100ClientNickelppmASTM D5185>100ClientSilverppmASTM D5185>100ClientSilverppmASTM D5185>100ClientQuadrumppmASTM D5185>100ClientNaminumppmASTM D5185>100ClientVanadiumppmASTM D5185>100ClientNordeppmASTM D5185>200A160SiliconppmASTM D5185>200A160YandiumppmASTM D5185>200A16		····/					
Sample Normal Client InfoIs Apr 202428 Sep 2023Machine AgehrsClient InfoIst35262371Oil AgehrsClient InfoI00Filter AgehrsClient InfoINot ChangedOil ChangedClient InfoIChangedChangedFilter ChangedClient InfoIChangedChangedSample StatusClient InfoIChangedIronppmASTM D5185>200ASTMNickelppmASTM D5185>100INickelppmASTM D5185>100ISilverppmASTM D5185>100ISilverppmASTM D5185>100IAluminmppmASTM D5185>100IVanadiumppmASTM D5185>100IIVanadiumppmASTM D5185>100IIVanadiumppmASTM D5185>200IIVanadiumppmASTM D5185>200IIVanadiumppmASTM D5185>200IIVanadiumppmASTM D5185>200IIVanadiumppmASTM D5185>200II </th <th>Test</th> <th>UOM</th> <th>Method</th> <th>Limit/Abn</th> <th>Current</th> <th>History1</th> <th>History2</th>	Test	UOM	Method	Limit/Abn	Current	History1	History2
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Filter Age Oil ChangedhrsClient Info00Filter ChangedClient InfoNot ChangedNot ChangedFilter ChangedClient InfoChangedChangedSample StatusABNORMALNORMALIronppmASTM D5185m>20▲ 5332IronppmASTM D5185m>10<1<1NickelppmASTM D5185m>10<1<1NickelppmASTM D5185m>1000SilverppmASTM D5185m>10<1<1LeadppmASTM D5185m>100<1CopperppmASTM D5185m>100<1VanadiumppmASTM D5185m>100<1VanadiumppmASTM D5185m>100<1Vellow Metalscalar'VisualNONENONENONESiliconppmASTM D5185m>2011SiliconppmASTM D5185m>2011SiliconppmASTM D5185m>2011SiliconppmASTM D5185m>2011SiliconppmASTM D5185m>2011SiliconppmASTM D5185m>2011<	Machine Age	hrs	Client Info		3526	2371	
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Chromium ppm ASTM D5185m >10 <1						~~~	
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Titanium ppm ASTM D5185m 0 0 Silver ppm ASTM D5185m >10 <1 < Aluminum ppm ASTM D5185m >10 <1 < Lead ppm ASTM D5185m >10 0 <1 < Copper ppm ASTM D5185m >75 ▲ 158 112 < Vanadium ppm ASTM D5185m >10 0 <1 Vanadium ppm ASTM D5185m >10 0 <1 Vanadium ppm ASTM D5185m >10 0 <1 Vanadium ppm ASTM D5185m >20 0 11 Vanadium ppm ASTM D5185m >20 0 11 Vellow Metal scalar Visual NONE NORE NORE Silicon ppm ASTM D5185m >20 0 1 -							
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Aluminum ppm ASTM D5185m >10 <1					-		
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TinppmASTM D5185m>100<1	Lead	ppm		>10	0	<1	
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WaterWC Method >0.1NEGNEGSiltscalar*VisualNONELIGHTNONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLEmulsified Waterscalar*VisualNORMLNORMLNORMLSodiumppmASTM D5185m10010499BariumppmASTM D5185m000MolybdenumppmASTM D5185m000MagnesiumppmASTM D5185m380036013332PhosphorusppmASTM D5185m1200114891433ZincppmASTM D5185m150045803966	Silicon	ppm	ASTM D5185m	>20	19	16	
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Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLIOdorscalar*VisualNORMLNORMLNORMLNORMLIEmulsified Waterscalar*Visual>0.1 NEG NEGSodiumppmASTM D5185m77BoronppmASTM D5185m100104999BariumppmASTM D5185m000MolybdenumppmASTM D5185m000ManganeseppmASTM D5185m008CalciumppmASTM D5185m380036013332PhosphorusppmASTM D5185m1200114891433ZincppmASTM D5185m150045803966	Debris	scalar	*Visual	NONE	NONE	NONE	
Odorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLIEmulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m77BoronppmASTM D5185m10010499BariumppmASTM D5185m000MolybdenumppmASTM D5185m000ManganeseppmASTM D5185m008MagnesiumppmASTM D5185m380036013332PhosphorusppmASTM D5185m120012951169ZincppmASTM D5185m150014893436SulfurppmASTM D5185m650045803966	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Emulsified Waterscalar*Visual>0.1NEGNEGSodiumppmASTM D5185m77BoronppmASTM D5185m10010499BariumppmASTM D5185m000MolybdenumppmASTM D5185m000ManganeseppmASTM D5185m008MagnesiumppmASTM D5185m380036013332PhosphorusppmASTM D5185m120012951169ZincppmASTM D5185m150014891433SulfurppmASTM D5185m650045803966	Appearance	scalar	*Visual	NORML	NORML	NORML	
Sodium ppm ASTM D5185m 7 7 Boron ppm ASTM D5185m 100 104 99 Barium ppm ASTM D5185m 0 0 Molybdenum ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 0 0 8 Calcium ppm ASTM D5185m 0 0 3332 Phosphorus ppm ASTM D5185m 1200 1169 Zinc ppm ASTM D5185m 1500 1489 1433 Sulfur ppm ASTM D5185m 1500 4580 3966	Odor	scalar	*Visual	NORML	NORML	NORML	
Boron ppm ASTM D5185m 100 104 99 Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 0 0 8 Calcium ppm ASTM D5185m 3800 3601 3332 Phosphorus ppm ASTM D5185m 1200 1295 1169 Zinc ppm ASTM D5185m 1500 1489 1433 Sulfur ppm ASTM D5185m 6500 4580 3966	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
Barium ppm ASTM D5185m 0 0 0 Molybdenum ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 0 0 8 Calcium ppm ASTM D5185m 3800 3601 3332 Phosphorus ppm ASTM D5185m 1200 1295 1169 Zinc ppm ASTM D5185m 1500 1489 1433 Sulfur ppm ASTM D5185m 6500 4580 3966	Sodium	ppm	ASTM D5185m		7	7	
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Manganese ppm ASTM D5185m 2 2 Magnesium ppm ASTM D5185m 0 0 8 Calcium ppm ASTM D5185m 3800 3601 3332 Phosphorus ppm ASTM D5185m 1200 1295 1169 Zinc ppm ASTM D5185m 1500 1489 1433 Sulfur ppm ASTM D5185m 6500 4580 3966	Molybdenum		ASTM D5185m	0	0	0	
Magnesium ppm ASTM D5185m 0 0 8 Calcium ppm ASTM D5185m 3800 3601 3332 Phosphorus ppm ASTM D5185m 1200 1295 1169 Zinc ppm ASTM D5185m 1500 1489 1433 Sulfur ppm ASTM D5185m 6500 4580 3966	-		ASTM D5185m		2	2	
Calcium ppm ASTM D5185m 3800 3601 3332 Phosphorus ppm ASTM D5185m 1200 1295 1169 Zinc ppm ASTM D5185m 1500 1489 1433 Sulfur ppm ASTM D5185m 6500 4580 3966	Magnesium	ppm	ASTM D5185m	0	0	8	
Phosphorus ppm ASTM D5185m 1200 1295 1169 Zinc ppm ASTM D5185m 1500 1489 1433 Sulfur ppm ASTM D5185m 6500 4580 3966	Calcium			3800	3601	3332	
Zinc ppm ASTM D5185m 1500 1489 1433 Sulfur ppm ASTM D5185m 6500 4580 3966			ASTM D5185m	1200	1295	1169	
Sulfur ppm ASTM D5185m 6500 4580 3966			ASTM D5185m			1433	
	Sulfur		ASTM D5185m	6500	4580	3966	
	o an a	pp		0000		0000	

Contact/Location: TODD LARK - VOLVO0090



ALTA EQUIPMENT COMPANY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 5151 DR MARTIN LUTHER KING BLVD : VCP437310 : 19 Apr 2024 Lab Number : 06154907 FORT MYERS, FL Tested : 22 Apr 2024 Unique Number : 10990330 : 24 Apr 2024 - Sean Felton 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. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (239)481-3302

Contact/Location: TODD LARK - VOLVO0090 Page 2 of 2