



## VOLVO A40G 352912

Wet Disc Brake

# VOLVO SUPER WET BRAKE TRANSAXLE OIL WB102 (--- GAL)

#### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

W	/E	Α	R
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Copper and iron ppm levels are abnormal.

#### **CONTAMINATION**

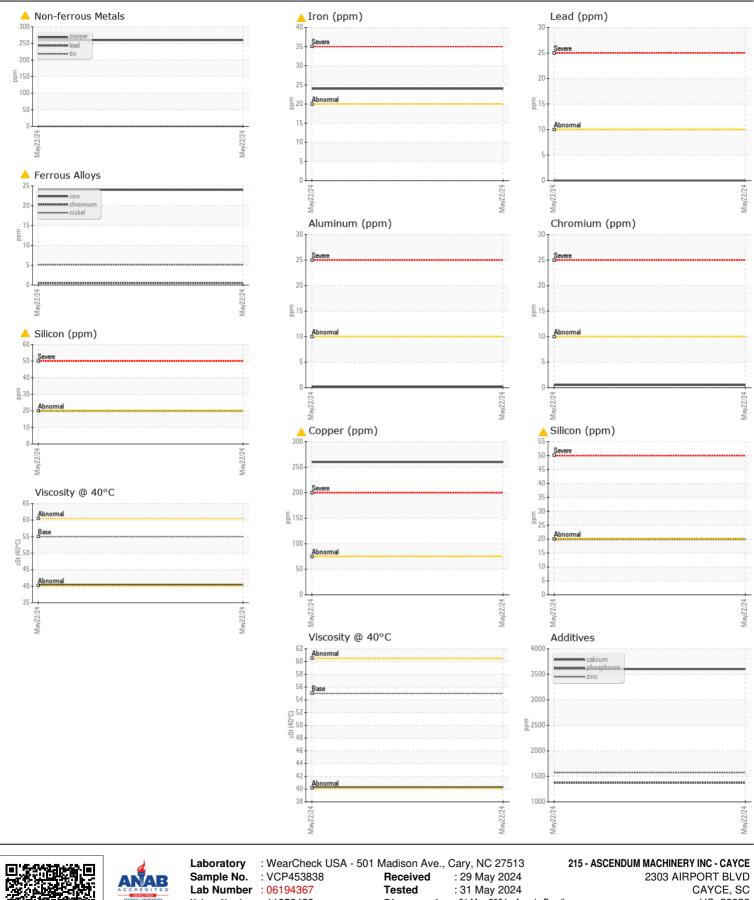
There is a moderate concentration of dirt present in the oil.

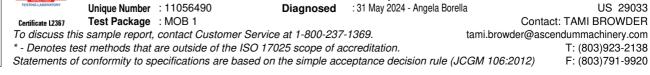
### **FLUID CONDITION**

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

TestUOMMethodLimit/ACurrentHistory1History1History2Sample NumberClient Info22 May 2024Sample DateClient Info24 May 2024Machine AgehrsClient Info0Filter AgehrsClient InfoOFilter ChangedClient InfoChangedFilter ChangedClient InfoChangedSample StatusClient InfoAChangedIronppmASTM D5165>10C1NickelppmASTM D5165>10C1NickelppmASTM D5165>10SilverppmASTM D5165>10SilverppmASTM D5165>100CopperppmASTM D5165>100VanadiumppmASTM D5165>100VanadiumppmASTM D5165>200Yellow Metalscalar'VisualNONENONESiliconppmASTM D5165>200Yellow Metalscalar'VisualNONENONESiliconppmASTM D5165>200SiliconppmASTM D5165>200SiliconppmASTM							
Sample DateClient Info22 May 2024Machine AgehrsClient Info4094Oil AgehrsClient Info0Filter AgehrsClient InfoChangedOil ChangedClient InfoChangedFilter ChangedClient InfoChangedFilter ChangedClient InfoChangedFilter ChangedClient InfoChangedSample StatusABNORMAIronppmASTM D5185>20424NickelppmASTM D5185>105NickelppmASTM D5185>100AluminumppmASTM D5185>100AluminumppmASTM D5185>100VanadiumppmASTM D5185>100VanadiumppmASTM D5185>100Valendscalar'VisualNONENONESiliconpmASTM D5185>200Valendscalar'VisualNONENONESiliconpmASTM D5185>200SiliconpmASTM D5185>20NONE <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
Machine Age    hrs    Client Info    4094        Oil Age    hrs    Client Info    0        Filter Age    hrs    Client Info    Changed        Oil Changed    Client Info    Changed        Filter Changed    Client Info    Changed        Sample Status     ASTM D5185m<>20    A 24        Iron    ppm    ASTM D5185m<>10    <1        Nickel    ppm    ASTM D5185m<>10    5        Silver    ppm    ASTM D5185m<>10    0        Qandium    ppm    ASTM D5185m<>10    0        Vanaduum    ppm    ASTM D5185m<>75    A 260        Yellow Metal    scalar    'Visual    NONE        Yellow Metal    scalar    'Visual    NONE	Sample Number		Client Info		VCP453838		
Oil Age    hrs    Client Info    0        Filter Age    hrs    Client Info    Changed        Oil Changed    Client Info    Changed        Filter Changed    Client Info    Changed        Sample Status    ASTM D5185m<>20    A 24        Iron    ppm    ASTM D5185m<>10         Nickel    ppm    ASTM D5185m    10         Aluminum    ppm    ASTM D5185m    10         Lead    ppm    ASTM D5185m    >10    0        Vanaduium    ppm    ASTM D5185m    >10    0        Valew    yciaa    NONE    NONE         Valeaduium    ppm    ASTM D5185m<>10    0	Sample Date		Client Info		22 May 2024		
Filter Age  hrs  Client Info  0     Oil Changed  Client Info  Changed     Filter Changed  Client Info  Changed     Sample Status  ABNORMAL      Iron  ppm  ASTM D5185m<>20  ▲ 24      Iron  ppm  ASTM D5185m<>10  <1      Nickel  ppm  ASTM D5185m  10  <1      Nickel  ppm  ASTM D5185m  0       Aluminum  ppm  ASTM D5185m  10  <1      Lead  ppm  ASTM D5185m<>10  0       Vanadium  ppm  ASTM D5185m<>10  0       Vanadium  ppm  ASTM D5185m<>10  0       Vanadium  ppm  ASTM D5185m<>20  A  20      Vanadium  ppm  ASTM D5185m<>20  A	Machine Age	hrs	Client Info		4094		
Oil ChangedClient InfoChangedFilter ChangedClient InfoChangedSample StatusASTM D5185m<>20A 24IronppmASTM D5185m<>10<1ChromiumppmASTM D5185m<>10<1NickelppmASTM D5185m<>105SilverppmASTM D5185m<0AluminumppmASTM D5185m100AluminumppmASTM D5185m100CopperppmASTM D5185m100VanadiumppmASTM D5185m100VanadiumppmASTM D5185m200Yellow Metalscalar'VisualNONENONESiliconppmASTM D5185m200Yellow Metalscalar'VisualNONENONESiliconppmASTM D5185m200SiliconppmASTM D5185m200SoliconppmASTM D5185m200SoliconppmASTM D5185m200SoliconppmASTM D5185m200SoliconppmASTM D5185m <th>Oil Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th></th> <th></th>	Oil Age	hrs	Client Info		0		
Filter Changed  Client Info  Changed     Filter Changed  Client Info  Changed     Sample Status  ABNORMAL     Iron  ppm  ASTM D5185m  >20  4  24     Chromium  ppm  ASTM D5185m  >10  <1     Nickel  ppm  ASTM D5185m  >10  5     Silver  ppm  ASTM D5185m  >10      Aluminum  ppm  ASTM D5185m  >10      Aluminum  ppm  ASTM D5185m  >10  0     Qopper  ppm  ASTM D5185m  >10  0	Filter Age	hrs	Client Info		0		
Sample Status  ABNORMAL      Iron  ppm  ASTM D5185m  >20  24     Chromium  ppm  ASTM D5185m  >10  <1     Nickel  ppm  ASTM D5185m  >10  5      Titanium  ppm  ASTM D5185m  >10  60      Aluminum  ppm  ASTM D5185m  >10  <1      Aluminum  ppm  ASTM D5185m  >10  <1      Aluminum  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >10  0      Vanadium  ppm  ASTM D5185m  >20  0     Vanadium  ppm  ASTM D5185m  >20  0	Oil Changed		Client Info		Changed		
Iron    ppm    ASTM D5185m<>20    ▲ 24        Chromium    ppm    ASTM D5185m    >10    <1        Nickel    ppm    ASTM D5185m    >10    5        Titanium    ppm    ASTM D5185m    >10    0        Aluminum    ppm    ASTM D5185m    >10    0        Aluminum    ppm    ASTM D5185m    >10    0        Lead    ppm    ASTM D5185m    >10    0	Filter Changed		Client Info		Changed		
Chromium    ppm    ASTM D5185m    >10    <1	Sample Status				ABNORMAL		
Chromium    ppm    ASTM D5185m    >10    <1							
Nickel    ppm    ASTM D5185m    >10    5        Titanium    ppm    ASTM D5185m    0        Silver    ppm    ASTM D5185m    10    <1        Aluminum    ppm    ASTM D5185m    >10    0        Lead    ppm    ASTM D5185m    >10    0        Copper    ppm    ASTM D5185m    >10    0        Vanadium    ppm    ASTM D5185m    >10    0        Vanadium    ppm    ASTM D5185m    >10    0       Vanadium    ppm    ASTM D5185m    >20    0	-	ppm					
Titanium    ppm    ASTM D5185m    0       Silver    ppm    ASTM D5185m    0       Aluminum    ppm    ASTM D5185m    >10    <1       Lead    ppm    ASTM D5185m    >10    0       Copper    ppm    ASTM D5185m    >75    4    260       Tin    ppm    ASTM D5185m    >10    0        Vanadium    ppm    ASTM D5185m    >10    0        Vanadium    ppm    ASTM D5185m    >10    0		ppm					
Silver    ppm    ASTM D5185m    0       Aluminum    ppm    ASTM D5185m    >10    <1       Lead    ppm    ASTM D5185m    >10    0       Copper    ppm    ASTM D5185m    >75    4    260       Tin    ppm    ASTM D5185m    >10    0        Vanadium    ppm    ASTM D5185m    >10    0        Vanadium    ppm    ASTM D5185m    >10    0		ppm		>10	-		
Aluminum    ppm    ASTM D5185m    >10    <1		ppm					
Lead    ppm    ASTM D5185m    >10    0       Copper    ppm    ASTM D5185m    >75    ▲ 260        Tin    ppm    ASTM D5185m    >10    0        Vanadium    ppm    ASTM D5185m    >10    0        White Metal    scalar    *Visual    NONE    NONE        Yellow Metal    scalar    *Visual    NONE    NONE        Silicon    ppm    ASTM D5185m    >20    0        Vater    WC Method    >0.1    NEG        Silit    scalar    *Visual    NONE    NONE        Sand/Dirt    scalar    *Visual    NORE    NORML        Appearance    scalar    *Visual    NORH    NORML        Sodium    ppm    ASTM D5185m		ppm			-		
Copper    ppm    ASTM D5185m    >75    ▲ 260        Tin    ppm    ASTM D5185m    >10    0        Vanadium    ppm    ASTM D5185m    >10    0        White Metal    scalar    *Visual    NONE    NONE        Yellow Metal    scalar    *Visual    NONE    NONE        Silicon    ppm    ASTM D5185m<>20    ▲ 20        Potassium    ppm    ASTM D5185m<>20    0        Water    WC Method<>0.1    NEG         Silt    scalar    *Visual    NONE    NONE        Debris    scalar    *Visual    NORM    NORM        Appearance    scalar    *Visual    NORM    NORML        Godor    scalar    *Visual		ppm		>10			
Tin    ppm    ASTM D5185m    >10    0		ppm		>10	-		
Vanadium    ppm    ASTM D5185m    0       White Metal    scalar    *Visual    NONE    NONE       Yellow Metal    scalar    *Visual    NONE    NONE       Silicon    ppm    ASTM D5185m<>20    NONE        Potassium    ppm    ASTM D5185m<>20    0        Water    WC Method<>0.1    NEG        Silt    scalar    *Visual    NONE        Sand/Dirt    scalar    *Visual    NONE        Appearance    scalar    *Visual    NORM    NORML        Sodium    ppm    ASTM D5185m    NORML         Sodium    ppm    ASTM D5185m    NORML         Boron    ppm    ASTM D5185m    9        Molybdenum    ppm    ASTM D	Copper	ppm	ASTM D5185m	>75	<b>A</b> 260		
White Metalscalar*VisualNONENONEYellow Metalscalar*VisualNONENONESiliconppmASTM D5185m>200PotassiumppmASTM D5185m>200WaterWC Method>0.1NEGSilitscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMNORMLOdorscalar*VisualNORMNORMLSodiumppmASTM D5185m9BoronppmASTM D5185m0MaganeseppmASTM D5185m0ManganeseppmASTM D5185m1MagnesiumppmASTM D5185m3601PhosphorusppmASTM D5185m1374PhosphorusppmASTM D5185m1575PhosphorusppmASTM D5185m1575PhosphorusppmASTM D5185m5093		ppm	ASTM D5185m	>10	0		
Yellow Metal    scalar    *Visual    NONE    ••••    ••••      Silicon    ppm    ASTM D5185m<>20    ▲ 20    ••••    ••••      Potassium    ppm    ASTM D5185m<>20    0    ••••    ••••      Water    WC Method    >0.1    NEG    ••••    ••••      Silt    scalar    *Visual    NONE    NONE    ••••    ••••      Debris    scalar    *Visual    NONE    NONE    ••••    ••••      Sand/Dirt    scalar    *Visual    NONE    NONE    ••••    ••••      Appearance    scalar    *Visual    NORML    NORML    ••••    ••••      Odor    scalar    *Visual    NORML    NORML    ••••    ••••      Boron    ppm    ASTM D5185m    9    •••••    •••••      Barium    ppm    ASTM D5185m    0    •••••    •••••      Molybdenum    ppm    ASTM D5185m    0    •••••    •••••	Vanadium	ppm	ASTM D5185m		0		
Silicon    ppm    ASTM D5185m    >20    ▲ 20        Potassium    ppm    ASTM D5185m    >20    0        Water    WC Method    >0.1    NEG        Silt    scalar    *Visual    NONE    NONE        Debris    scalar    *Visual    NONE    NONE        Sand/Dirt    scalar    *Visual    NONE    NONE        Appearance    scalar    *Visual    NORML    NORML        Odor    scalar    *Visual    NORM    NORML        Sodium    ppm    ASTM D5185m    9        Boron    ppm    ASTM D5185m    0        Malganese    ppm    ASTM D5185m    0        Magnesium    ppm    ASTM D5185m    3601	White Metal	scalar	*Visual	NONE	NONE		
PotassiumppmASTM D5185m>200WaterWC Method>0.1NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLBoronppmASTM D5185m9BariumppmASTM D5185m0MalganeseppmASTM D5185m0MagnesiumppmASTM D5185m11PhosphorusppmASTM D5185m3601PhosphorusppmASTM D5185m1374SulfurppmASTM D5185m5093	Yellow Metal	scalar	*Visual	NONE	NONE		
PotassiumppmASTM D5185m>200WaterWC Method>0.1NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMNORMLOdorscalar*VisualNORMLNORMLMolyberscalar*VisualNORMLSodiumppmASTM D5185m9BoronppmASTM D5185m9MolybdenumppmASTM D5185m0MagnesiumppmASTM D5185m1MagnesiumppmASTM D5185m3601PhosphorusppmASTM D5185m1374PhosphorusppmASTM D5185m5093SulfurppmASTM D5185m5093	Silicon	maa	ASTM D5185m	>20	<b>2</b> 0		
WaterWC Method>0.1NEGSiltscalar*VisualNONENONEDebrisscalar*VisualNONENONESand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNORMLNORMLSodiumppmASTM D5185m9BoronppmASTM D5185m0MolybdenumppmASTM D5185m0MagnesiumppmASTM D5185m11MagnesiumppmASTM D5185m3601PhosphorusppmASTM D5185m1374ZincppmASTM D5185m1575SulfurppmASTM D5185mMagnesiumppmASTM D5185mSulfurppmASTM D5185mMagnesiumppmASTM D5185mSulfurppmASTM D5185mPhosphorusppmASTM D5185mSulfurppmASTM D5185mPhosphorus	Potassium		ASTM D5185m	> 20	0		
Debrisscalar*VisualNONENONESand/Dirtscalar*VisualNORNOREAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLDdorscalar*VisualNORMLNORMLEmulsified Waterscalar*VisualNORMLNORMLSodiumppmASTM D5185m9BoronppmASTM D5185m10BariumppmASTM D5185m0MolybdenumppmASTM D5185m11MagnesiumppmASTM D5185m-3601PhosphorusppmASTM D5185m3601ZincppmASTM D5185m-11374SulfurppmASTM D5185m-1575SulfurppmASTM D5185m-15093				>20	•		
Sand/Dirtscalar*VisualNONENONEAppearancescalar*VisualNORMLNORMLOdorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGSodiumppmASTM D5185m9BoronppmASTM D5185m0BariumppmASTM D5185m0MolybdenumppmASTM D5185m0MagnesiumppmASTM D5185m1MagnesiumppmASTM D5185m3601PhosphorusppmASTM D5185m11374ZincppmASTM D5185m1575SulfurppmASTM D5185m0MagnesiumppmASTM D5185m3601SulfurppmASTM D5185m11374SulfurppmASTM D5185m15093		1-1-					
Appearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLInormaticationEmulsified Waterscalar*Visual>0.1NEGSodiumppmASTM D5185m9BoronppmASTM D5185m134BariumppmASTM D5185m0MolybdenumppmASTM D5185m0ManganeseppmASTM D5185m11MagnesiumppmASTM D5185m3601PhosphorusppmASTM D5185m1374ZincppmASTM D5185m1575SulfurppmASTM D5185m5093	Water		WC Method	>0.1	NEG		
Odorscalar*VisualNORMLNORMLEmulsified Waterscalar*Visual>0.1NEGSodiumppmASTM D5185m9BoronppmASTM D5185m134BariumppmASTM D5185m0MolybdenumppmASTM D5185m0ManganeseppmASTM D5185m1MagnesiumppmASTM D5185m3601PhosphorusppmASTM D5185m1374ZincppmASTM D5185m1575SulfurppmASTM D5185m6SulfurppmASTM D5185m1107ASTM D5185m3601SulfurppmASTM D5185m1575SulfurppmASTM D5185m15093	Water Silt	scalar	WC Method *Visual	>0.1 NONE	NEG NONE		
Emulsified Water    scalar    *Visual    >0.1    NEG       Sodium    ppm    ASTM D5185m    9        Boron    ppm    ASTM D5185m    134        Barium    ppm    ASTM D5185m    0        Molybdenum    ppm    ASTM D5185m    0        Manganese    ppm    ASTM D5185m    1        Magnesium    ppm    ASTM D5185m    8        Phosphorus    ppm    ASTM D5185m    3601        Zinc    ppm    ASTM D5185m    1374        Sulfur    ppm    ASTM D5185m    1575	Water Silt Debris	scalar scalar	WC Method *Visual *Visual	>0.1 NONE NONE	NEG NONE NONE		
Sodium    ppm    ASTM D5185m    9       Boron    ppm    ASTM D5185m    134       Barium    ppm    ASTM D5185m    0       Barium    ppm    ASTM D5185m    0       Molybdenum    ppm    ASTM D5185m    0       Manganese    ppm    ASTM D5185m    1       Magnesium    ppm    ASTM D5185m    8       Calcium    ppm    ASTM D5185m    3601       Phosphorus    ppm    ASTM D5185m    1374       Zinc    ppm    ASTM D5185m    1575       Sulfur    ppm    ASTM D5185m    5093	Water Silt Debris Sand/Dirt	scalar scalar scalar	WC Method *Visual *Visual *Visual	>0.1 NONE NONE NONE	NEG NONE NONE NONE		
Boron    ppm    ASTM D5185m    134       Barium    ppm    ASTM D5185m    0       Molybdenum    ppm    ASTM D5185m    0       Molybdenum    ppm    ASTM D5185m    0       Manganese    ppm    ASTM D5185m    1       Magnesium    ppm    ASTM D5185m    8       Calcium    ppm    ASTM D5185m    3601       Phosphorus    ppm    ASTM D5185m    1374       Zinc    ppm    ASTM D5185m    1575       Sulfur    ppm    ASTM D5185m    5093	Water Silt Debris Sand/Dirt Appearance	scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual	>0.1 NONE NONE NONE NORML	NEG NONE NONE NONE NORML		
Boron    ppm    ASTM D5185m    134       Barium    ppm    ASTM D5185m    0       Molybdenum    ppm    ASTM D5185m    0       Molybdenum    ppm    ASTM D5185m    0       Manganese    ppm    ASTM D5185m    1       Magnesium    ppm    ASTM D5185m    8       Calcium    ppm    ASTM D5185m    3601       Phosphorus    ppm    ASTM D5185m    1374       Zinc    ppm    ASTM D5185m    1575       Sulfur    ppm    ASTM D5185m    5093	Water Silt Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual *Visual	>0.1 NONE NONE NORML NORML	NEG NONE NONE NONE NORML		
Barium    ppm    ASTM D5185m    0       Molybdenum    ppm    ASTM D5185m    0       Manganese    ppm    ASTM D5185m    1       Magnesium    ppm    ASTM D5185m    8       Calcium    ppm    ASTM D5185m    3601       Phosphorus    ppm    ASTM D5185m    1374       Zinc    ppm    ASTM D5185m    1575       Sulfur    ppm    ASTM D5185m    65093	Water Silt Debris Sand/Dirt Appearance Odor	scalar scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual *Visual	>0.1 NONE NONE NORML NORML	NEG NONE NONE NONE NORML		
Molybdenum    ppm    ASTM D5185m    O       Manganese    ppm    ASTM D5185m    1       Magnesium    ppm    ASTM D5185m    8       Calcium    ppm    ASTM D5185m    3601       Phosphorus    ppm    ASTM D5185m    1374       Zinc    ppm    ASTM D5185m    1575       Sulfur    ppm    ASTM D5185m    5093	Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar scalar scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>0.1 NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG 9	   	   
Manganese    ppm    ASTM D5185m    1       Magnesium    ppm    ASTM D5185m    8       Calcium    ppm    ASTM D5185m    3601        Phosphorus    ppm    ASTM D5185m    1374        Zinc    ppm    ASTM D5185m    1575        Sulfur    ppm    ASTM D5185m    5093	Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar scalar scalar scalar scalar scalar scalar	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>0.1 NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG 9	  	   
Magnesium    ppm    ASTM D5185m    8       Calcium    ppm    ASTM D5185m    3601       Phosphorus    ppm    ASTM D5185m    1374       Zinc    ppm    ASTM D5185m    1575       Sulfur    ppm    ASTM D5185m    5093	Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar scalar scalar ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>0.1 NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG 9 134		    
Calcium    ppm    ASTM D5185m    3601       Phosphorus    ppm    ASTM D5185m    1374       Zinc    ppm    ASTM D5185m    1575       Sulfur    ppm    ASTM D5185m    5093	Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar scalar scalar scalar ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>0.1 NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG 9 134		    
Phosphorus    ppm    ASTM D5185m    1374       Zinc    ppm    ASTM D5185m    1575       Sulfur    ppm    ASTM D5185m    5093	Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar scalar scalar ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>0.1 NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG 9 134 0 0 1		
Zinc    ppm    ASTM D5185m    1575       Sulfur    ppm    ASTM D5185m    5093	Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar scalar scalar ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>0.1 NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG 9 134 0 0 1		
Sulfur    ppm    ASTM D5185m    5093	Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>0.1 NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG 9 134 0 0 134 0 134 8		
	Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium	scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>0.1 NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG 9 134 0 0 134 0 1 34 0 1 34 0		
Visc @ 40°C cSt ASTM D445 55 40.3	Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>0.1 NONE NONE NORML NORML	NEG NONE NONE NORML NORML NEG 9 134 0 0 134 0 134 0 134 1374		
	Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Malybdenum Manganese Magnesium Calcium Phosphorus	scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm	WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>0.1 NONE NONE NORML NORML	NEG NONE NONE NORML NORML 9 134 0 0 134 0 134 0 134 134 1374		

Contact/Location: TAMI BROWDER - VOLVO0013





Contact/Location: TAMI BROWDER - VOLVO0013 Page 2 of 2