

## Machine Id VOLVO L70H 624368 Component Rear Axle Fluid {not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

## **WEAR**

All component wear rates are normal.

## CONTAMINATION

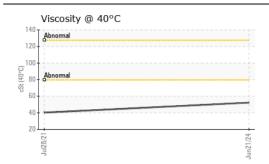
There is no indication of any contamination in the oil.

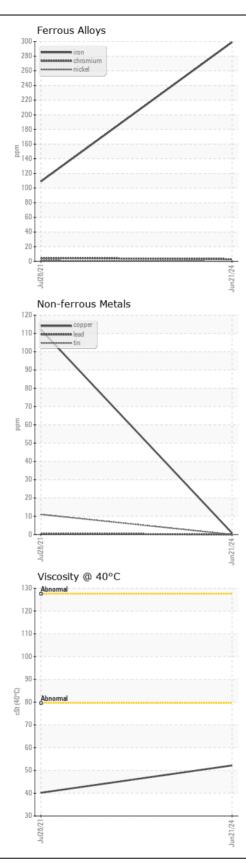
## FLUID CONDITION

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

TestUOMMethodLimit/ADCurrentHistory1History2Sample NumberClient InfoVCP0313023								
Sample DateClient Info21 Jun 202428 Jul 2021Machine AgehrsClient Info01959Oil AgehrsClient Info00Filter AgehrsClient InfoN/ANot ChangdOil ChangedClient InfoN/ANot ChangdFilter ChangedClient InfoN/ANot ChangdSample StatusViralNorRMALNorRMALNorCMALIronppmASTM D5185m>500299109NickelppmASTM D5185m>1001NickelppmASTM D5185m>1001AluminumppmASTM D5185m>3030AluminumppmASTM D5185m>500<1VanadiumppmASTM D5185m>20011VanadiumppmASTM D5185m>200111VanadiumppmASTM D5185m>500SiliconppmASTM D5185m>5045133SiliconppmASTM D5185m>5045133SiliconppmASTM D5185m>50AST22SiliconppmASTM D5185m>5045133Debrisscalar'VisualNONENONENONESiliconppm<	-	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age         hrs         Client Info         0         1959            Oil Age         hrs         Client Info         0         0            Filter Age         hrs         Client Info         N/A         Not Changd            Oil Changed         Client Info         N/A         Not Changd            Filter Changed         Client Info         N/A         Not Changd            Sample Status         VORMAL         NORMAL         NORMAL            Iron         ppm         ASTM D5185m         >20         3         4            Nickel         ppm         ASTM D5185m         >20         3         4            Silver         ppm         ASTM D5185m         >20         0         11            Copper         ppm         ASTM D5185m         >30         3         0            Vanadium         ppm         ASTM D5185m         >20         0         111            Vanadium         ppm         ASTM D5185m         >20         0         111            Vanadium         ppm <td< th=""><th>:</th><th>Sample Number</th><th></th><th>Client Info</th><th></th><th>VCP0008731</th><th>VCP313023</th><th></th></td<>	:	Sample Number		Client Info		VCP0008731	VCP313023	
Oil Age         hrs         Client Info         0         0            Filter Age         hrs         Client Info         N/A         Not Changd            Oil Changed         Client Info         N/A         Not Changd            Filter Changed         Client Info         N/A         Not Changd            Sample Status         NORMAL         NORMAL         NORMAL            Iron         ppm         ASTM D5185m         >500         299         109            Chromium         ppm         ASTM D5185m         >0         0         1            Silver         ppm         ASTM D5185m         >30         3         0            Auminum         ppm         ASTM D5185m         >50         0         <1            Qopper         ppm         ASTM D5185m         >20         0         11            Vanadium         ppm         ASTM D5185m         >20         0         111            Valeu         scalar         *Visual         NONE         NONE         NONE            Vallow Metal         scal	;	Sample Date		Client Info		21 Jun 2024	28 Jul 2021	
Filter Age Oil ChangedhrsClient InfoN/ANot ChangdOil ChangedClient InfoN/ANot ChangdFilter ChangedClient InfoN/ANot ChangdSample StatusNORMALNORMALNORMALIronppmASTM D5185m>500299109ChromiumppmASTM D5185m>2034NickelppmASTM D5185m>1001TitaniumppmASTM D5185m>3030AluminumppmASTM D5185m>500<1AuminumppmASTM D5185m>500<1QopperppmASTM D5185m>20011VanadiumppmASTM D5185m>20011VanadiumppmASTM D5185m>504513Yellow Metalscalar"VisualNONENONENONESiliconppmASTM D5185m>504513SiliconppmASTM D5185m>504513SoliconppmASTM D5185m>504513SiliconppmASTM D5185m>504513SoliconppmASTM D5185m>504513SoliconppmASTM D5185m>20<12	I	Machine Age	hrs	Client Info		0	1959	
Oil ChangedClient InfoN/ANot ChangedFilter ChangedClient InfoN/ANot ChangedSample StatusViralNORMALNORMALNORMALIronppmASTM D5185m>2034OhromiumppmASTM D5185m>1001NickelppmASTM D5185m>1001TitaniumppmASTM D5185m>1000SilverppmASTM D5185m>3030AluminumppmASTM D5185m>500<1LeadppmASTM D5185m>200111VanadiumppmASTM D5185m>200111VanadiumppmASTM D5185m>200111VanadiumppmASTM D5185m>2000VanadiumppmASTM D5185m>200111VanadiumppmASTM D5185m>20<12ValerVisualNONENONENONENONEValervisualNONENONENONESiliconppmASTM D5185m>20<12SoliconppmASTM D5185m>20<12SoliconppmASTM D5185m>20<12	(	Oil Age	hrs	Client Info		0	0	
Filter Changed         Client Info         N/A         Not Changed            Sample Status         NORMAL         NORMAL         NORMAL            Iron         ppm         ASTM D5185m         >500         299         109            Chromium         ppm         ASTM D5185m         >10         0         1            Nickel         ppm         ASTM D5185m         >10         0         1            Titanium         ppm         ASTM D5185m         >10         0         0            Silver         ppm         ASTM D5185m         >30         3         0            Aluminum         ppm         ASTM D5185m         >50         0         <1            Lead         ppm         ASTM D5185m         >20         0         111            Vanadium         ppm         ASTM D5185m         >20         0         111            Vanadium         ppm         ASTM D5185m         >20         0         111            Vanadium         ppm         ASTM D5185m         >50         45         13 <th>I</th> <th>Filter Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th>0</th> <th></th>	I	Filter Age	hrs	Client Info		0	0	
Sample StatusNORIMALNORMALNORMALNORMALIronppmASTM D5185m>500299109ChromiumppmASTM D5185m>2034NickelppmASTM D5185m>1001TitaniumppmASTM D5185m>1000AluminumppmASTM D5185m>3030AluminumppmASTM D5185m>500<1LeadppmASTM D5185m>200111CopperppmASTM D5185m>200111VanadiumppmASTM D5185m>2000VanadiumppmASTM D5185m>2000Yellow Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>20<12Yellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>20<12Yellow Metalscalar*VisualNONENONENONESodiumppmASTM D5185m>20<12SodiumppmASTM D5185m>20<12Debrisscalar*Visu		Oil Changed		Client Info		N/A	Not Changd	
Iron         ppm         ASTM D5185m         >500         299         109            Chromium         ppm         ASTM D5185m         >20         3         4            Nickel         ppm         ASTM D5185m         >10         0         1            Titanium         ppm         ASTM D5185m         >10         0         0            Aluminum         ppm         ASTM D5185m         >30         3         0            Aluminum         ppm         ASTM D5185m         >30         3         0            Lead         ppm         ASTM D5185m         >50         0         <11            Vanadium         ppm         ASTM D5185m         >20         0         111            Vanadium         ppm         ASTM D5185m         >20         0         0            Vanadium         ppm         ASTM D5185m         >20         0         0            Vanadium         ppm         ASTM D5185m         >50         45         13            Yellow Metal         scalar         Visual         NONE <th></th> <th>Filter Changed</th> <th></th> <th>Client Info</th> <th></th> <th>N/A</th> <th>Not Changd</th> <th></th>		Filter Changed		Client Info		N/A	Not Changd	
Chromium         ppm         ASTM D5185m         >20         3         4            Nickel         ppm         ASTM D5185m         >10         0         1            Titanium         ppm         ASTM D5185m         0         0            Silver         ppm         ASTM D5185m         50         0         <1            Aluminum         ppm         ASTM D5185m         >30         3         0            Lead         ppm         ASTM D5185m         >50         0         <11            Copper         ppm         ASTM D5185m         >20         0         111            Vanadium         ppm         ASTM D5185m         >20         0         111            Vanadium         ppm         ASTM D5185m         >20         0         111            Vanadium         ppm         ASTM D5185m         >20         45         13            Yellow Metal         scalar         *Visual         NONE         NONE         NONE            Silicon         ppm         ASTM D5185m         >20	Sample Status					NORMAL	NORMAL	
Chromium         ppm         ASTM D5185m         >20         3         4            Nickel         ppm         ASTM D5185m         >10         0         1            Titanium         ppm         ASTM D5185m         >10         0         0            Silver         ppm         ASTM D5185m         >30         3         0            Aluminum         ppm         ASTM D5185m         >50         0         <1            Lead         ppm         ASTM D5185m         >20         0         1112            Copper         ppm         ASTM D5185m         >20         0         0            Vanadium         ppm         ASTM D5185m         >20         0         0            Vanadium         ppm         ASTM D5185m         >20         45         13            Valow Metal         scalar         *Visual         NONE         NONE         NONE            Yellow Metal         scalar         *Visual         NONE         NONE         NONE            Sotiicon         ppm         ASTM D5185m		Iron		ACTM DE10Em	. 500	200	100	
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Titanium         ppm         ASTM D5185m         <1						-		
Silver         ppm         ASTM D5185m         0         0            Aluminum         ppm         ASTM D5185m         >30         3         0            Lead         ppm         ASTM D5185m         >50         0         <1            Copper         ppm         ASTM D5185m         >120         <1         1112            Tin         ppm         ASTM D5185m         >20         0         11            Vanadium         ppm         ASTM D5185m         >20         0         0            White Metal         scalar         *Visual         NONE         NONE         NONE            Yellow Metal         scalar         *Visual         NONE         NONE         NONE            Silicon         ppm         ASTM D5185m         >50         45         13            Silicon         ppm         ASTM D5185m         >50         45         13            Solit         scalar         *Visual         NONE         NONE         NONE            Sand/Dirt         scalar         *Visual         NORM					>10	-		
Aluminum         ppm         ASTM D5185m         >30         3         0            Lead         ppm         ASTM D5185m         >50         0         <1            Copper         ppm         ASTM D5185m         >120         <1         112            Tin         ppm         ASTM D5185m         >20         0         11            Vanadium         ppm         ASTM D5185m         >20         0         111            Vanadium         ppm         ASTM D5185m         >20         0         0            White Metal         scalar         *Visual         NONE         NONE         NONE            Yellow Metal         scalar         *Visual         NONE         NONE         NONE            Silicon         ppm         ASTM D5185m         >20         <1         2            Water         wC Method         >0.2         NEG         NEG            Sand/Dirt         scalar         *Visual         NONE         NORE             Appearance         scalar         *Visual         NORML								
Lead         ppm         ASTM D5185m         >50         0         <1					>30	-		
Copper         ppm         ASTM D5185m         >120         <1							-	
Tin         ppm         ASTM D5185m         >20         0         11            Vanadium         ppm         ASTM D5185m         0         0         0            White Metal         scalar         *Visual         NONE         NONE         NONE         NONE            Yellow Metal         scalar         *Visual         NONE         NONE         NONE            Silicon         ppm         ASTM D5185m         >50         45         13            Potassium         ppm         ASTM D5185m         >20         <1						-		
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White Metalscalar*VisualNONENONENONEYellow Metalscalar*VisualNONENONENONESiliconppmASTM D5185m>20<12PotassiumppmASTM D5185m>20<12WaterWC Method>0.2NEGNEGSiltscalar*VisualNONENONENONEDebrisscalar*VisualNONENONENONESand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLSodiumppmASTM D5185m42BoronppmASTM D5185m42MolybdenumppmASTM D5185m210MarganeseppmASTM D5185m39MagnesiumppmASTM D5185m3374512PhosphorusppmASTM D5185m5241471ZincppmASTM D5185m6591566SulfurppmASTM D5185m19474496					>20	-		
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Sand/Dirtscalar*VisualNONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m42BoronppmASTM D5185m23161BariumppmASTM D5185m<10MolybdenumppmASTM D5185m39MagnesiumppmASTM D5185m319CalciumppmASTM D5185m8374512PhosphorusppmASTM D5185m5241471ZincppmASTM D5185m6591566SulfurppmASTM D5185m65914496	I	Potassium		ASTM D5185m	>20	<1	2	
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Emulsified Water         scalar         *Visual         >0.2         NEG         NEG            Sodium         ppm         ASTM D5185m         4         2            Boron         ppm         ASTM D5185m         23         161            Barium         ppm         ASTM D5185m          -1         0            Molybdenum         ppm         ASTM D5185m          2         5            Manganese         ppm         ASTM D5185m         3         9            Magnesium         ppm         ASTM D5185m         3         9            Calcium         ppm         ASTM D5185m         837         4512            Phosphorus         ppm         ASTM D5185m         659         1566            Sulfur         ppm         ASTM D5185m         659         1566	:	Potassium Water Silt Debris	ppm scalar scalar	ASTM D5185m WC Method *Visual *Visual	>20 >0.2 NONE NONE	<1 NEG NONE NONE	2 NEG NONE VLITE	
Sodium         ppm         ASTM D5185m         4         2            Boron         ppm         ASTM D5185m         23         161            Barium         ppm         ASTM D5185m         <1         0            Barium         ppm         ASTM D5185m         <1         0            Molybdenum         ppm         ASTM D5185m         2         5            Manganese         ppm         ASTM D5185m         3         9            Magnesium         ppm         ASTM D5185m         11         9            Calcium         ppm         ASTM D5185m         837         4512            Phosphorus         ppm         ASTM D5185m         524         1471            Zinc         ppm         ASTM D5185m         659         1566            Sulfur         ppm         ASTM D5185m         1947         4496		Potassium Water Silt Debris Sand/Dirt	ppm scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual	>20 >0.2 NONE NONE NONE	<1 NEG NONE NONE NONE	2 NEG NONE VLITE NONE	
Boron         ppm         ASTM D5185m         23         161            Barium         ppm         ASTM D5185m         <1         0            Molybdenum         ppm         ASTM D5185m         2         5            Manganese         ppm         ASTM D5185m         3         9            Magnesium         ppm         ASTM D5185m         11         9            Calcium         ppm         ASTM D5185m         837         4512            Phosphorus         ppm         ASTM D5185m         524         1471            Zinc         ppm         ASTM D5185m         659         1566            Sulfur         ppm         ASTM D5185m         1947         4496		Potassium Water Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NONE	<1 NEG NONE NONE NONE NORML	2 NEG NONE VLITE NONE NORML	   
Boron         ppm         ASTM D5185m         23         161            Barium         ppm         ASTM D5185m         <1         0            Molybdenum         ppm         ASTM D5185m         2         5            Manganese         ppm         ASTM D5185m         3         9            Magnesium         ppm         ASTM D5185m         11         9            Calcium         ppm         ASTM D5185m         837         4512            Phosphorus         ppm         ASTM D5185m         524         1471            Zinc         ppm         ASTM D5185m         659         1566            Sulfur         ppm         ASTM D5185m         1947         4496		Potassium Water Silt Debris Sand/Dirt Appearance Odor	ppm scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NORML NORML	<1 NEG NONE NONE NORE NORML NORML	2 NEG NONE VLITE NONE NORML NORML	   
Barium         ppm         ASTM D5185m         <1	:	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>20 >0.2 NONE NONE NORML NORML	<1 NEG NONE NONE NORML NORML NEG	2 NEG NONE VLITE NONE NORML NORML NEG	   
Molybdenum         ppm         ASTM D5185m         2         5            Manganese         ppm         ASTM D5185m         3         9            Magnesium         ppm         ASTM D5185m         11         9            Calcium         ppm         ASTM D5185m         837         4512            Phosphorus         ppm         ASTM D5185m         524         1471            Zinc         ppm         ASTM D5185m         659         1566            Sulfur         ppm         ASTM D5185m         1947         4496	: : : : : :	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.2 NONE NONE NORML NORML	<1 NEG NONE NONE NORML NORML NEG 4	2 NEG NONE VLITE NORML NORML NEG 2	
Manganese         ppm         ASTM D5185m         3         9            Magnesium         ppm         ASTM D5185m         11         9            Calcium         ppm         ASTM D5185m         837         4512            Phosphorus         ppm         ASTM D5185m         524         1471            Zinc         ppm         ASTM D5185m         659         1566            Sulfur         ppm         ASTM D5185m         1947         4496		Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>20 >0.2 NONE NONE NORML NORML	<1 NEG NONE NONE NORML NORML NEG 4 23	2 NEG NONE VLITE NORML NORML NEG 2 161	
Magnesium         ppm         ASTM D5185m         11         9            Calcium         ppm         ASTM D5185m         837         4512            Phosphorus         ppm         ASTM D5185m         524         1471            Zinc         ppm         ASTM D5185m         659         1566            Sulfur         ppm         ASTM D5185m         1947         4496	· · · · · · · · · · · · · · · · · · ·	Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML	<1 NEG NONE NONE NORML NORML NEG 4 23 <1	2 NEG NONE VLITE NORML NORML NEG 2 161 0	
Calcium         ppm         ASTM D5185m         837         4512            Phosphorus         ppm         ASTM D5185m         524         1471            Zinc         ppm         ASTM D5185m         659         1566            Sulfur         ppm         ASTM D5185m         1947         4496		Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML	<1 NEG NONE NONE NORML NORML NEG 4 23 <1 2	2 NEG NONE VLITE NORML NORML NEG 2 161 0 5	
Phosphorus         ppm         ASTM D5185m         524         1471            Zinc         ppm         ASTM D5185m         659         1566            Sulfur         ppm         ASTM D5185m         1947         4496		Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML	<1 NEG NONE NONE NORML NORML NEG 4 23 <1 2 3	2 NEG NONE VLITE NONE NORML NORML NEG 2 161 0 5 9	
Zinc         ppm         ASTM D5185m         659         1566            Sulfur         ppm         ASTM D5185m         1947         4496		Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML	<1 NEG NONE NONE NORML NORML NEG 4 23 <1 2 3 11	2 NEG NONE VLITE NONE NORML NORML NEG 2 161 0 5 9 9 9	
Sulfur         ppm         ASTM D5185m         1947         4496		Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML	<1 NEG NONE NONE NORML NORML NEG 4 23 <1 2 3 (1) 2 3 11 837	2 NEG NONE VLITE NORML NORML NEG 2 161 0 5 9 9 9 9 4512	
		Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML	<1 NEG NONE NONE NORML NORML NORML 23 <1 2 3 11 837 524	2 NEG NONE VLITE NONE NORML NORML NEG 2 161 0 5 9 9 9 4512 1471	
		Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >0.2 NONE NONE NORML NORML	<1 NEG NONE NONE NORML NORML NORML NORML 23 <1 23 <1 23 <1 23 <1 524 <659	2 NEG NONE VLITE NONE NORML NORML NEG 2 161 0 5 9 9 9 9 9 4512 1471 1566	

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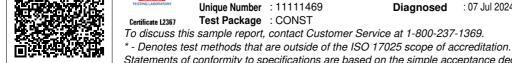


Received

Diagnosed

Tested

ALTA EQUIPMENT COMPANY : WearCheck USA - 501 Madison Ave., Cary, NC 27513 8750 PHILIPS HWY : 03 Jul 2024 JACKSONVILLE, FL : 07 Jul 2024 : 07 Jul 2024 - Don Baldridge US 32256 Contact: TECHNICIAN ACCOUNT catherine.anastasio@wearcheck.com T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (904)737-1260



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Report Id: VOLVO0092 [WUSCAR] 06227976 (Generated: 07/09/2024 12:44:49) Rev: 1

Lab Number : 06227976

Unique Number : 11111469

Test Package : CONST

: VCP0008731

Laboratory

Sample No.

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