

FSA

Volvo Construction Equipment



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A25G, A30G

Volvo Articulated Haulers • 27.5 - 32.0 ton • 314 - 354 hp, net



Volvo A25G, A30G in detail

Engine

V-ACT, 11 liter, 6-cylinder in line **turbocharged diesel engine** with 4 valves per cylinder, overhead camshaft and electronically controlled unit injectors. It has wet replaceable cylinder liners and replaceable valve guides and valve seats. The engine has light EGR (Exhaust Gas Recirculation) and exhaust after treatment with EAT-Muffler (Exhaust After treatment) including SCR (Selective Catalytic Reduction) with an electronically controlled UDS (Urea Dosing System). **Includes two stage air cleaner with precleaner.**

A25G

Engine model	Volvo	D11L
Max power - SAE J1995 Gross	kW (hp)	235 (315)
at engine speed	r/min (r/s)	2,100 (35)
Flywheel power - ISO 9249, SAE J1349 Net	kW (hp)	234 (314)
at engine speed	r/min (r/s)	2,100 (35)
Max torque - SAE J1995 Gross	Nm (ft lbf)	1,950 (1,438)
Max torque - ISO 9249, SAE J1349 Net	Nm (ft lbf)	1,942 (1,432)
at engine speed	r/min (r/s)	1,100 (18.3)
Displacement	l (in³)	10.8 (659)

A30G

Engine model	Volvo	D11L
Max power - SAE J1995 Gross	kW (hp)	265 (355)
at engine speed	r/min (r/s)	2,000 (33.3)
Flywheel power - ISO 9249, SAE J1349 Net	kW (hp)	264 (354)
at engine speed	r/min (r/s)	2,000 (33.3)
Max torque - SAE J1995 Gross	Nm (ft lbf)	1,950 (1,438)
Max torque - ISO 9249, SAE J1349 Net	Nm (ft lbf)	1,942 (1,432)
at engine speed	r/min (r/s)	1,200 (20)
Displacement	l (in³)	10.8 (659)

Electrical System

All cables, sockets and pins are identified. Cables are enclosed in plastic conduits and secured to main frame. Halogen lights. Prewired for options. Connectors meet IP67 standard for water-proofing as necessary.

		A25G	A30G
Voltage	V	24	24
Battery	V	2x12	2x12
Battery capacity	Ah	2x170	2x170
Alternator	kW/A	3.396/120	3.396/120
Starter motor	kW	9	9

Drivetrain

Torque converter with built-in lock-up function.
Transmission: Fully automatic Volvo PowerTronic planetary transmission with six forward gears and two reverse gears. The transmission has the ability to skip gears for fast and accurate gear selection.
Dropbox: Volvo-developed, in-line design with high ground clearance and **100%** longitudinal "dog clutch" type differential lock.
Axles: Heavy duty, purpose built Volvo design with fully floating axle shafts, planetary type hub reductions and 100% dog clutch type diff-lock.
Automatic traction control system (ATC).

		A25G	A30G
Torque converter		2.37:1	2.37:1
Transmission	Volvo	PT 2116	PT 2116
Dropbox	Volvo	IL1 ATC	IL1 ATC
Axles	Volvo	AHW56	AHW64

Brake System

Fully hydraulic, wet multiple disc brakes with enclosed, forced oil-cooled multiple discs on all wheels. Two circuit brake system. Complies with ISO 3450 at total machine weight.
Circuit division: One circuit for front axle and one for bogie axles.
Parking brake: Spring-applied disc brake acting on the trailer unit propeller shaft. When the parking brake is applied, the longitudinal differential locked.
Retarder: Service brake retarder function and Volvo Engine Brake (VEB).

Steering System

Hydro-mechanical articulated steering, self compensating design.
Two double-acting steering cylinders.
Steering angle: 3,4 steering wheel turns lock-to-lock, **±45°**.
Steering system, including secondary steering fulfils ISO 5010.

Chassis			
Frames: box type, heavy duty. High strength steel, robot welded. Rotating hitch: 100% maintenance free, fully sealed, with permanently greased tapered roller bearings.			
Cab			
<p>Mounted on rubber pads. Ergonomically designed. Easy entry and exit. Wide angle forward view.</p> <p>Operator centrally positioned above the front axle. Adjustable operators seat with retractable seat belt.</p> <p>Tilt/telescopic steering wheel. Ergonomically positioned controls. Filtered air. Optional climate control system.</p> <p>Operator communication system: Contronics.</p> <p>Large color display, user-friendly and easy-to-understand information, all vital machine functions are constantly monitored.</p> <p>Instructor seat with seat belt.</p> <p>Safety: ROPS/FOPS standards approved according to ISO3471, SAE J1040 / ISO3449, SAE J231.</p>			
		A25G	A30G
Sound level in cab (ISO 6396) - LpA	dB(A)	72	72
External sound level (ISO 6395) - LwA	dB(A)	110	111
Internal sound level with sound kit: 70 dB(A)			
External sound level with sound kit: 108 dB(A)			
Hydraulic System			
<p>Pumps: Four variable displacement piston pumps driven by the flywheel PTO.</p> <p>Two load-sensing used for steering and tipping and two electrical controlled used for fan, brake cooling and brake power supply.</p> <p>One ground-dependent piston pump for secondary steering mounted on the dropbox.</p> <p>Two return oil filters with magnetic cores provide effective oil filtration.</p>			
		A25G	A30G
System max working pressure	MPa (psi)	25 (3,626)	25 (3,626)
Dumping System			
<p>Patented Load and Dump Brake.</p> <p>Dumping Cylinders: two single stage double acting cylinders.</p>			
		A25G	A30G
Tipping angle	°	74	70
Tipping time with load	s	12	12
Lowering time	s	10	10

Body			
		A25G	A30G
Plate thickness			
Front	mm (in)	6 (0.24)	6 (0.24)
Sides	mm (in)	10 (0.39)	10 (0.39)
Bottom	mm (in)	14 (0.55)	14 (0.55)
Chute	mm (in)	14 (0.55)	14 (0.55)
Material			
Yield strength	N/mm ² (psi)	1,150 (166,793)	1,150 (166,793)
Tensile strength	N/mm ² (psi)	1,350 (195,801)	1,350 (195,801)
Load Capacity			
		A25G	A30G
Standard Body			
Load capacity	kg (sh tn)	25,000 (27.56)	29,000 (32)
Body, struck	m ³ (yd ³)	12.1 (15.8)	13.9 (18.2)
Body, heaped 2:1	m ³ (yd ³)	15.3 (20)	17.8 (23.3)
With overhung tailgate			
Body, struck	m ³ (yd ³)	12.4 (16.2)	14.2 (18.6)
Body, heaped 2:1	m ³ (yd ³)	15.9 (20.8)	18.4 (24.1)

Specifications

REFILL CAPACITIES

			A25G		A30G	
Crankcase	l	gal	35	9.2	35	9.2
Fuel tank	l	gal	380	100.4	380	100.4
Cooling system	l	gal	48	12.7	48	12.7
Brake cooling system	l	gal	35	9.2	35	9.2
Transmission	l	gal	41	10.8	41	10.8
Dropbox	l	gal	9	2.4	9	2.4
Axles, front/bogie	l	gal	30/61	7.9/16.1	31/63	8.2/16.6
Hydraulic tank	l	gal	137	36.2	137	36.2
DEF	l	gal	39	10.3	39	10.3

OPERATING WEIGHT UNLOADED

			A25G		A30G	
Tires			23.5R25*		750/65R25**	
Front	kg	lb	12,800	28,219	13,050	28,770
Rear	kg	lb	9,650	21,275	10,250	22,597
Total	kg	lb	22,450	49,494	23,300	51,368
Payload	kg	lb	25,000	55,116	29,000	63,934

Operating weight includes all fluids and operator

*) A25G with tires 750/65R25, add 200 kg (440 lb)/axle

**) A30G with tires 23.5R25, decrease 200 kg (440 lb)/axle

SPEED

			A25G		A30G	
Forward						
1	km/h	mph	8.3	5.2	8.3	5.2
2	km/h	mph	11.9	7.4	11.9	7.4
3	km/h	mph	21.1	13.1	21.1	13.1
4	km/h	mph	30.3	18.8	30.3	18.8
5	km/h	mph	38.4	23.9	38.4	23.9
6	km/h	mph	52.7	32.7	52.7	32.7
Reverse						
1	km/h	mph	7.7	4.8	7.7	4.8
2	km/h	mph	13.7	8.5	13.7	8.5

TOTAL WEIGHT

			A25G		A30G	
Tires			23.5R25*		750/65R25**	
Front	kg	lb	14,900	32,849	15,600	34,392
Rear	kg	lb	32,550	71,760	36,700	80,910
Total	kg	lb	47,400	104,499	52,300	115,302

*) A25G with tires 750/65R25, add 200 kg (440 lb)/axle

**) A30G with tires 23.5R25, decrease 200 kg (440 lb)/axle

GROUND PRESSURE

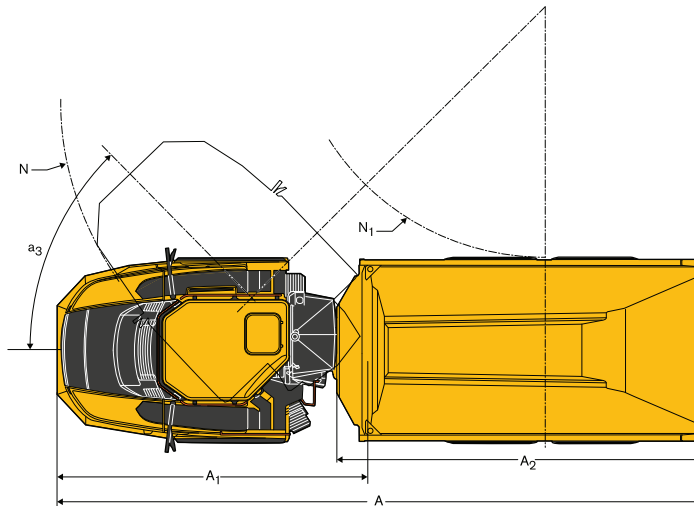
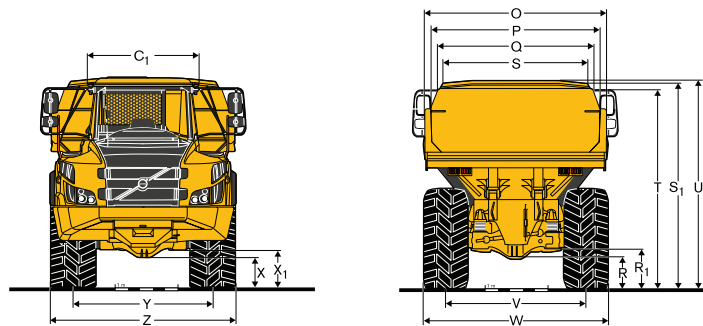
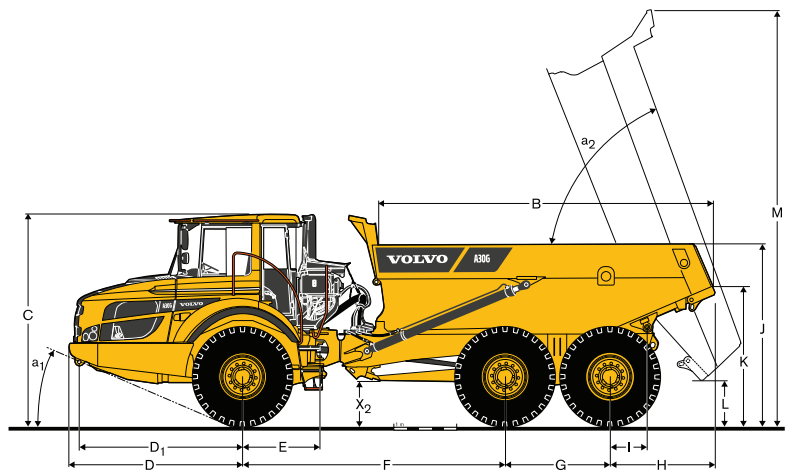
			A25G		A30G		A25G		A30G	
Tires			23.5R25		750/65R25		750/65R25		23.5R25	
Unloaded										
Front	kPa	psi	130	18.9	108	15.7	108	15.7	131	19
Rear	kPa	psi	49	7.1	43	6.2	42	6.1	50	7.3
Loaded										
Front	kPa	psi	157	22.8	130	18.9	125	18.1	157	22.8
Rear	kPa	psi	166	24.1	152	22	137	19.9	184	26.7

DIMENSIONS

Pos	Unit	A25G		A30G	
A	mm ft in	10,218	33'6"	10,296	33'9"
A ₁	mm ft in	4,954	16'3"	4,954	16'3"
A ₂	mm ft in	5,736	18'10"	5,811	19'1"
B	mm ft in	5,162	16'11"	5,384	17'8"
C	mm ft in	3,356	11'0"	3,366	11'1"
C ₁	mm ft in	1,772	5'10"	1,772	5'10"
D	mm ft in	2,762	9'1"	2,762	9'1"
D ₁	mm ft in	2,607	8'7"	2,607	8'7"
E	mm ft in	1,209	4'	1,209	4'
F	mm ft in	4,175	13'8"	4,175	13'8"
G	mm ft in	1,670	5'6"	1,670	5'6"
H	mm ft in	1,610	5'3"	1,688	5'6"
I	mm ft in	609	2'	609	2'
J	mm ft in	2,791	9'2"	2,866	9'5"
K	mm ft in	2,103	6'11"	2,183	7'2"
L	mm ft in	678	2'3"	688	2'3"
M	mm ft in	6,529	21'5"	6,562	21'6"
N	mm ft in	8,109	26'7"	8,109	26'7"
N ₁	mm ft in	4,092	13'5"	4,048	13'3"
O	mm ft in	2,776	9'1"	2,976	9'9"
P	mm ft in	2,490	8'2"	2,690	8'10"
Q	mm ft in	2,298	7'6"	2,472	8'1"
R	mm ft in	519	1'8"	524	1'9"
R ₁	mm ft in	633	2'1"	639	2'1"
S	mm ft in	2,110	6'11"	2,288	7'6"
T	mm ft in	3,094	10'2"	3,196	10'6"
U	mm ft in	3,265	10'9"	3,325	10'11"
V	mm ft in	2,258	7'5"	2,216	7'3"
W	mm ft in	2,915	9'7"	2,954	9'8"
X	mm ft in	455	1'6"	466	1'6"
X ₁	mm ft in	581	1'11"	592	1'11"
X ₂	mm ft in	660	2'2"	680	2'3"
Y	mm ft in	2,258	7'5"	2,216	7'3"
Z	mm ft in	2,915	9'7"	2,954	9'8"
a ₁	°	23.5		23.2	
a ₂	°	74		70	
a ₃	°	45		45	

A25G: Unloaded machine with 23.5 R25

A30G: Unloaded machine with 750/65R25



Equipment

STANDARD EQUIPMENT	A25G	A30G
Safety		
Anti-slip steps and platforms	•	•
Dump body lock	•	•
Handrails on steps and platforms	•	•
Hazard lights	•	•
Horn	•	•
Protective grill for cab rear window	•	•
Rear-view mirrors	•	•
Retractable 3-inch safety belt	•	•
ROPS/ FOPS protected Care Cab	•	•
Secondary steering	•	•
Steering joint lock	•	•
Windshield washers	•	•
Windshield wipers with interval function	•	•
Dump support system	•	•
Drivetrain		
6x4 and 6x6 automatically engaged drive modes	•	•
Dog clutch type 100% diff-locks in all axles	•	•
Full automatic transmission	•	•
Two stage dropbox with longitudinal diff-lock	•	•
Torque converter with automatic lock-up	•	•
Engine		
Direct injected, electronically controlled, turbocharged, intercooled	•	•
Grouped oil filters, for ease of change	•	•
Preheater for easier cold starts	•	•
VEB (exhaust retarder EPG + compression brake)	•	•
Electrical system		
80 A alternator	•	•
Battery disconnect switch	•	•
Extra 24 V socket for lunch cooler	•	•
Lights:	•	•
Back-up light	•	•
Brake lights	•	•
Cab lighting	•	•
Direction indicators	•	•
Headlights	•	•
Instrument lighting	•	•
Parking lights	•	•
Rear lights	•	•
Brake system	•	•
Hill assist	•	•
Load & Dump Brake	•	•
Retarder pedal	•	•
Parking brake on propeller shaft	•	•
Two circuit, fully hydraulic, wet discs on all axles	•	•
Comfort		
ACC control panel	•	•
Ashtray	•	•
Cab heater with filtered fresh air and defroster	•	•
Can holder /storage tray	•	•
Cigarette lighter	•	•
Instructor seat with seat belt	•	•
Overhead console for radio	•	•
Sliding window	•	•
Space for lunch cooler	•	•
Storage box	•	•
Sun visor	•	•
Tilt/telescopic steering wheel	•	•
Tinted glass	•	•

STANDARD EQUIPMENT	A25G	A30G
Operator information interface		
Gauges:	•	•
Brake pressure	•	•
Fuel	•	•
Speedometer	•	•
Tachometer	•	•
Wet disc brakes cooling oil temperature	•	•
Warning lights grouped and easy to read		
Central warning (3 levels) for all vital functions	•	•
Central positioned information display:		
Automatic pre-start checks	•	•
Clock	•	•
Hour meter	•	•
Operational information, easy-to-navigate menu	•	•
Troubleshooting diagnostics	•	•
Body		
Body prepared for exhaust heating and optional equipment	•	•
Exterior		
Front mudguard wideners and rear mudflaps	•	•
Tires		
23,5R25	•	
750/65R25		•
Service and maintenance		
Electrical engine hood and belly plate	•	•
Machine Tracking Information System MATRIS	•	•
Service platform integrated in the front grill	•	•
Tool box	•	•
Other		
On board weighing (OBW)	•	•

OPTIONAL EQUIPMENT	A25G	A30G
Safety		
Fire suppression system	•	•
Warning triangle	•	•
First aid kit and fire extinguisher	•	•
Fire extinguisher	•	•
Wheel chocks	•	•
Engine		
Air filter, heavy duty, EON	•	•
Engine heater, 120 V, USA	•	•
Engine heater, 240 V	•	•
Engine heater, diesel (Eberspächer)	•	•
Engine auto shutdown	•	•
Engine shutdown timer	•	•
External emergency engine stop	•	•
Fuel filter, extra	•	•
High engine idle speed	•	•

OPTIONAL EQUIPMENT		
	A25G	A30G
Electrical system		
Headlights, LED	•	•
Warning beacon, LED	•	•
Working lights, halogen	•	•
Working lights, LED	•	•
Entrance light	•	•
Anti-theft system (pin code)	•	•
Rear view camera	•	•
Reverse alarm	•	•
CAN-BUS interface, extra	•	•
Cab		
Noise reduction kit (fulfills 2000/14/EC)	•	•
Anchorage, operator's manual	•	•
Cab heating/ventilation timer	•	•
Cable kit, for cab heater 240 V	•	•
HEPA cab air filter	•	•
Bluetooth radio kit	•	•
Rear view mirrors, adjustable, el.heated	•	•
Seat belt XXL, non-retractable	•	•
Sun blinds, side windows	•	•
Universal key	•	•
Air suspended, heated, fully adjustable seat	•	•
Armrest for operator seat	•	•
Headrest for operator seat	•	•
Low profile cab	•	•

OPTIONAL EQUIPMENT		
	A25G	A30G
Body		
Body exhaust heating	•	•
Front spillguard, extra	•	•
Side extension, 200 mm	•	•
Side extension, light material	•	•
Tailgate, overhung, linkage-operated	•	•
Tailgate, overhung, wire-operated	•	•
Tailgate, underhung	•	•
Wear plates, 450 HB	•	•
Underground body	•	•
Tires		
23,5R25		•
750/65R25	•	
Service and maintenance		
Lube system, standard machine	•	•
Lube system, tailgate	•	•
Lubrication hose, ground level greasing	•	•
Tool kit	•	•
Other		
Siberian kit -40°C	•	•
Bogie extension	•	•
Arctic oil kit	•	•
CareTrack	•	•
Fast fuelling system	•	•
Jump start connector, NATO -type	•	•
Frame extension	•	•

Sales Code	Description Of Build Sheet Items Added to Standard Unit
A25G	Volvo A25G Articulated Hauler
AH82001	Standard body
AH20037	23.5R25 XADN Michelin 185B E3 (6)
AH21010	6 - Rims (5pc) for 23.5-25 tires
AH22002	Front fender widener for 80 series tires
AH23003	Rear mudflaps, front of bogie, 80 series tire
AH30013	Engine D11 L (Tier 4F US)
AH31006	Delayed engine stop
AH31012	Engine Idle shutdown
AH41007	Anchorage manual
AH41011	Universal key w/battery disconnect switch
AH41023	ACC control panel, Fo-scale
AH41025	Radio Installation kit
AH41031	Retarder pedal
AH41032	Radio with BlueTooth/USB/AUX
AH42003	Seat, air suspension, KAB
AH50002	Back up alarm
AH50003	Rear view camera, color
AH71001	Parameter settings USA
AH70009	Frame, life time guarantee
AH81001	Decal set USA
AH81025	CareTrack Connectivity 4 yr Subscription
AH81031	ID plate (PED)
AH81039	CareTrack, GSM/Satellite
AH81040	De-activate SAT
AH80002	Transport rust protection R2
AH83006	Extra front spillguard, foldable
AH83004	Overhung tailgate (cannot be used with Underhung tailgate AH83008)
AH80005	Manual English
AH86005	PIN Plate USA/Canada
AH31005	Air filter, heavy duty EON Dual Element with Precleaner

Description	Article
Volvo A25G Articulated Hauler	A25G
Standard body	AH82001
23.5R25 XADN Michelin 185B E3 (6)	AH20037
6 - Rims (5pc) for 23.5-25 tires	AH21010
Front fender widener for 80 series tires	AH22002
Rear mudflaps, front of bogie, 80 series tire	AH23003
Engine D11 L (Tier 4F US)	AH30013
Delayed engine stop	AH31006
Engine Idle shutdown	AH31012
Anchorage manual	AH41007
Universal key w/battery disconnect switch	AH41011
ACC control panel, Fo-scale	AH41023
Radio Installation kit	AH41025
Retarder pedal	AH41031
Radio with Bluetooth/USB/AUX	AH41032
Seat, air suspension, KAB	AH42003
Back up alarm	AH50002
Rear view camera, color	AH50003
Rear vision system, Monitor	AH50017
Parameter settings USA	AH71001
Frame, life time guarantee	AH70009
Decal set USA	AH81001
CareTrack Connectivity 4 yr Subscription	AH81025
ID plate (PED)	AH81031
CareTrack, GSM/Satellite	AH81039
De-activate SAT	AH81040
Transport rust protection R2	AH80002
Manual English	AH80005
PIN Plate USA/Canada	AH86005
Air filter, heavy duty EON Dual Element with Precleaner	AH31005
Extra front spillguard, foldable	AH83006
Underhung tailgate (cannot be used with Overhung tailgate)	AH83008



Volvo Construction Equipment North America
Warranty – Disclaimers – Limitations
Limited Warranty for Governmental / Municipalities

Volvo Construction Equipment North America (“Volvo CE”) hereby extends to its authorized dealers (“Dealer”) and the Dealer’s Governmental / Municipalities customers (“Customer”, and both Dealer and Customer are referred to herein as a “Buyer”), who purchase a new Volvo construction equipment machine (“Machine”) or new Volvo part (“Part”, both of which are referred to herein as a “Product”) from Volvo, the following limited warranty:

Subject to the exceptions and limitations set forth below, Volvo CE or Dealer will repair or replace any part of a new Machine or new Part which proves to be defective in material or workmanship during the following periods (the “Warranty Period”):

- Volvo wheel loaders: 12 months/2500 hours, whichever first occurs
- Volvo articulated haulers: 12 months/2500 hours, whichever first occurs
- Volvo hydraulic excavators: 12 months/2500 hours, whichever first occurs
- Volvo motor graders: 12 months/2500 hours, whichever first occurs
- Volvo compactors: 12 months/1500 hours, whichever first occurs
24 months unlimited hours on DD90 and larger compactors
- Volvo pavers: 12 months/1500 hours, whichever first occurs
24 months unlimited hours on 6000 / 7000 series pavers
- Volvo milling: 12 months/1500 hours, whichever first occurs
- Volvo compact wheel loaders (up to 100 net hp.): 12 months/unlimited hours
- Volvo skid steer loaders: 12 months/unlimited hours; Lifetime arm for one-sided
- Volvo compact hydraulic excavators (less than 11 metric tons): 12 months/unlimited hours
- Volvo backhoe loaders: 12 months/unlimited hours
- Volvo engines: 12 months/2500 hours, whichever first occurs
- Volvo parts: 6 months/1500 hours, whichever first occurs
- Volvo remanufactured components: 12 months/2500 hours, whichever first occurs
- Volvo Attachments: 12 months

The Warranty Period commences immediately following the delivery of said Product to the Buyer who first puts said Product into use. The foregoing limited warranty shall include the labor cost to accomplish the repair or replacement of the defective part provided that the repair or replacement was performed by a Dealer.

The foregoing warranty does not cover: (i) any Product found to have been damaged by abuse, accident, other casualty or a failure to maintain or use the warranted Product in accordance with the applicable manuals or instructions (Buyer is required to use only original equipment manufacturer filters during the Warranty Period); (ii) the labor costs to repair or replace defective Parts after the expiration of the Warranty Period of the Machine in which such Part is located; (iii) overtime labor premiums; (iv) costs and expenses associated with the transportation of Dealer’s service personnel to and from the location of the warranted Product; (v) any parts, components, attachments or accessories for which Buyer receives a separate warranty by the manufacturer or producer thereof (in specified cases said warranty may be administered by Volvo CE); (vi) maintenance items or ground engaging parts that have achieved their normal service life.

DISCLAIMER OF IMPLIED WARRANTIES AND LIMITATION OF REMEDIES

THE FOREGOING WARRANTY TO BUYER IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND THERE IS NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

REMEDIES AVAILABLE TO BUYER ARE LIMITED TO MAKING A CLAIM UNDER THE FOREGOING WARRANTY AND ARE EXCLUSIVE AND EXPRESSLY LIMITED TO OBTAINING THE PARTS AND LABOR IN ACCORDANCE WITH THE TERMS OF SAID WARRANTY.

Warranty – Disclaimers – Limitations

LIMITATIONS OF LIABILITY AND DAMAGES

Regardless of whether a claim against Volvo CE or Dealer is based on the foregoing warranty or is an action in contract, tort (negligence or strict liability) or otherwise, their respective liability for losses, damages or expenses of any kind arising from the design, manufacture, repair or sale of the Products is limited, unless otherwise prohibited by law, to an amount not exceeding the cost performing the obligations contained in the foregoing warranty, and in no event shall their respective or joint liability exceed the value of the Product or part thereof giving rise to such liability.

CONSEQUENTIAL AND SIMILAR DAMAGES NOT RECOVERABLE

Except for performing the obligations of the foregoing warranty in accordance with its terms, Volvo CE and Dealer shall have no liability for loss, damage, or expense, directly or indirectly, attributable to a loss of use of a Product, loss or damage to property other than the Product, loss or damage to the Product or any part thereof or any other economic or commercial loss, including, without limitation, lost profits or special or consequential damages (except liability for any type of consequential damages which by law may not be disclaimed). The parties intend that this prohibition against consequential and similar damages will survive and be effective even if the limitation of remedies in the foregoing sections is found to fail of its essential purpose under section 2-719 of the Uniform Commercial Code.

ALLOCATION OF RISK

The foregoing warranty disclaimers, limitations of liability and limitation of remedies are bargained allocations of risks among (i) the Customer who purchased the Product; (ii) the Dealer who sold the Product, and (iii) Volvo CE, which is a third party beneficiary of the contract of sale between the Customer and the Dealer. The Buyer of the Product accepts the foregoing warranty and the other bargained for allocations of risk as part of the agreed price for the purchase of the Product to which the foregoing warranty applies. Volvo CE is prepared to offer different warranties and other allocations of risk for other prices. However, any such change in the warranty or the allocation of risks must be confirmed in writing by Volvo CE.

STATUTE OF LIMITATIONS

Any action by a Buyer of a Product for breach of contract, for breach of warranty arising under, or for a cause of action arising out of the sale of a Product, whether based on contract, tort (negligence or strict liability) or otherwise, shall be commenced within one (1) year after the cause of action has accrued. Any such cause of action shall be deemed to have accrued at the earlier of (i) the discovery of the defect or breach, or (ii) the expiration of the applicable Warranty Period.