VOLVO

Volvo Wheel Loaders 27.0-28.4 t / 59,520-62,610 lb 337 hp

L180H

Volvo Construction Equipment

L180H

Strong and smart machines

Up to 15% greater fuel efficiency

- Rimpull control
- New generation OptiShift
- Reverse By Braking
- Eco pedal
- Dry P-brake

Boost your productivity by up to 10%

- New load sensing hydraulics
- New transmission and gear ratio
- Bucket leveling function
- Load Assist, powered by Volvo Co-Pilot
- Choice of single or multi levers

Built with the operator in mind

- Adjustable seat
- Choice of three hydraulic modes
- Comfort Drive Control (option)
- Radar detect system (option)
- Remote-control door opener (option)
- Collision Mitigation System (option)

Fully loaded

- Unique Torque Parallel linkage
- Block handling
- Slag handling
- Log handling
- Rehandling – up to 5% greater productivity

Here to support you

- Genuine Volvo Parts
- Operator training
- ActiveCare

Maximize your uptime

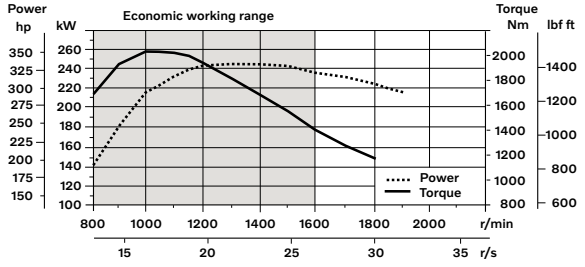
- Lifetime Frame and Structure Warranty
- 1,000hr engine oil change interval
- Quicker hydraulic oil fill thanks to new mounted nipple
- Tilting cab, electronically-operated engine hood
- Brake wear indicators
- Outboard mounted brakes
- Replaceable breather filters

Volvo L180H in detail

Engine

V-ACT Stage IV/Tier 4F 13 liter, 6-cylinder straight turbocharged diesel engine with 4 valves per cylinder, overhead camshaft and electonically controlled unit injectors. The engine has wet replacable cylinder liners and replacable valve guides and valve seats. The throttle applications is transmitted electrically from the throttle pedal or the optional hand throttle.
Air Cleaning: 2 stages.
Cooling system: Hydrostatic, electronically controlled fan and intercooler of the air-to-air type.

Engine	Volvo	D13J
Max. power at	r/min (r/s)	1 300 - 1 400 (21.7 - 23.3)
ECE R120 net	kW (hp)	251 (337)
ISO 9249, SAE J1349 net	kW (hp)	250 (335)
Max. torque at	r/min (r/s)	1,000 (16.7)
ECE R120 net	Nm (ft lbf)	2,071 (1,527)
ISO 9249, SAE J1349 net	Nm (ft lbf)	2,065 (1,523)
Economic working range	r/min (r/s)	800 - 1 600 (13.3 - 26.7)
Displacement	l (in³)	12.8 (781)



Drivetrain

Torque converter: Single-stage.
Transmission: Volvo countershaft transmission with single lever control. Fast and smooth shifting of gears with Pulse Width Modulation (PWM) valve. Torque converter with lockup.
Transmission: Volvo Automatic Power Shift (APS) with fully automatic shifting 1-4 and mode selector with 4 different gear shifting programs, including AUTO. Also equipped with Rimpull control to avoid wheel spin and optimize bucket filling.
Axles: Volvo fully floating drive shafts with planetary hub reductions and nodular iron axle housing. Fixed front axle and oscillating rear axle. 100% differential lock on the front axle. Optional: Limslip rear.

Transmission	Volvo	HTL 223
Torque multiplication, stall ratio		2.09:1
Maximum speed, forward/reverse		
1st gear	km/h (mi/h)	6.1 (3.8)
2nd gear	km/h (mi/h)	12.6 (7.8)
3rd gear	km/h (mi/h)	23.5 (14.6)
4th gear	km/h (mi/h)	38 (23.6)
Measured with tires		26.5 R25 L3
Front axle/rear axle		Volvo/AWB 40B/40B
Rear axle oscillation	± °	15
Ground clearance	mm (in)	610 (24)
at oscillation	°	15

Electrical system

Central warning system: Contronic electrical system with central warning light and buzzer for following functions: - Serious engine fault - Low steering system pressure - Over speed warning engine - Interruption in communication (computer fault) Central warning light and buzzer with the gear engaged for the following functions. - Low engine oil pressure - High engine oil temperature - High charge air temperature - Low coolant level - High coolant temperature - High crank case pressure - Low transmission oil pressure - High transmission oil temperature - Low brake pressure - Engaged parking brake - Fault on brake charging - Low hydraulic oil level - High hydraulic oil temperature - Overspeeding in engaged gear - High brake cooling oil temperature front and rear axles.

Voltage	V	24
Batteries	V	2 x 12
Battery capacity	Ah	2 x 170
Cold cranking capacity, approx	A	1,000
Alternator rating	W/A	2,280/80
Starter motor output	kW	7

Brake system

Service brake: Volvo dual-circuit system with nitrogen charged accumulators. Outboard mounted hydraulically operated, fully sealed oil circulation-cooled wet disc brakes. The operator can select automatic disengagement of the transmission when braking using Contronic.
Parking brake: Dry disc brake. Applied by spring force, electro-hydraulic release with a switch on the instrument panel.
Secondary brake: Dual brake circuits with rechargeable accumulators. One circuit or the parking brake fulfills all safety requirements.
Standard: The brake system complies with the requirements of ISO 3450.

Number of brake discs per wheel front/rear		1/1
Accumulators	l (gal)	2 x 1.0 + 1 x 0.5 (2 x 0.26 + 1 x 0.13)

Cab

Instrumentation: All important information is centrally located in the operator's field of vision. Display for Contronic monitoring system.
Heater and defroster: Heater coil with filtered fresh air and fan with auto and manual settings (11 speeds). Defroster vents for all window areas.
Operator's seat: Operator's seat with adjustable air suspension and retractable seatbelt. The seat is mounted on a bracket on the rear cab wall and floor. The forces from the retractable seatbelt are absorbed by the seat rails.
Standards: The cab is tested and approved according to ROPS (ISO 3471, SAE J1040), FOPS (ISO 3449). The cab meets with requirements according to SAE J386 („Operator Restraint System"). Refrigerant of the type R134a is used when this machine is equipped with air conditioning. Contains fluorinated greenhouse gas R134a, Global Warming Potential 1.430 t CO_2-eq.

Emergency exit: Use emergency hammer to break window

Ventilation	m³/min (yd³/min)	9 (11.8)
Heating capacity	kW	16
Air conditioning (optional)	kW	7.5

Sound Level

Sound pressure level in cab according to ISO 6396		
L_{pA}	dB	70
External sound level according to ISO 6395		
L_{WA}	dB	108

Hydraulic system

System supply: Two load-sensing axial piston pumps with variable displacement. The steering function always has priority.
Valves: Double-acting 2-spool valve. The main valve is electro operated.
Lift function: The valve has four positions; raise, hold, lower and floating position. Inductive/magnetic automatic boom kickout can be switched on and off and is adjustable to any position between maximum reach and full lifting height.
Tilt function: The valve has three functions including rollback, hold and dump. Inductive/magnetic automatic tilt can be adjusted to the desired bucket angle.
Cylinders: Double-acting cylinders for all functions.
Filter: Full flow filtration through 10 micron (absolute) filter cartridge.

Working pressure maximum, pump 1 for working hydraulic system	MPa (bar)	29 (290)
Flow	l/min (gal/min)	217 (57.3)
at	MPa (bar)	10 (100)
engine speed	r/min (r/s)	1,900 (31.7)
Working pressure maximum, pump 2 for steering-, brake-, pilot- and working hydraulic system	MPa (bar)	31 (310)
Flow	l/min (gal/min)	202 (53.4)
at	MPa (bar)	10 (100)
engine speed	r/min (r/s)	1,900 (31.7)
Working pressure maximum, pump 3 for brake- and cooling fan system	MPa (bar)	25 (250)
Flow	l/min (gal/min)	83 (21.9)
at	MPa (bar)	10 (100)
engine speed	r/min (r/s)	1,900 (31.7)
Pilot system, working pressure	MPa (bar)	3.5 (35)
Cycle times		
Lift	s	6.4
Tilt	s	1.8
Lower, empty	s	3.3
Total cycle time	s	11.5

Steering System

Steering system: Load-sensing hydrostatic articulated steering.
System supply: The steering system has priority feed from a loadsensing axial piston pump with variable displacement.
Steering cylinders: Two double-acting cylinders.

Steering cylinders		2
Cylinder bore	mm (in)	100 (3.9)
Rod diameter	mm (in)	60 (2.4)
Stroke	mm (in)	525 (20.7)
Working pressure	MPa (bar)	21 (210)
Maximum flow	l/min (gal/min)	202 (53.4)
Maximum articulation	± °	37

Service Refill

Service accessibility: Large, easy-to-open hood covering whole engine compartment, electrically operated. Fluid filters and component breather air filters promote long service intervals. A quick-fit adapter on the hydraulic tank provides faster hydraulic oil fill. Possibility to monitor, log and analyze data to facilitate troubleshooting.

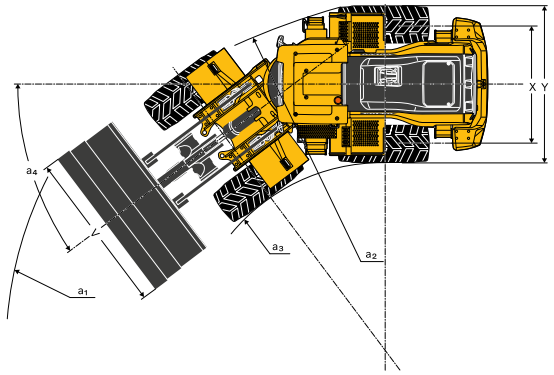
Fuel tank	l (gal)	366 (96.7)
DEF/AdBlue® tank	l (gal)	31 (8.2)
Engine coolant	l (gal)	55 (14.5)
Hydraulic oil tank	l (gal)	156 (41.2)
Transmission oil	l (gal)	48 (12.7)
Engine oil	l (gal)	50 (13.2)
Axle oil front	l (gal)	46 (12.2)
Axle oil rear	l (gal)	55 (14.5)

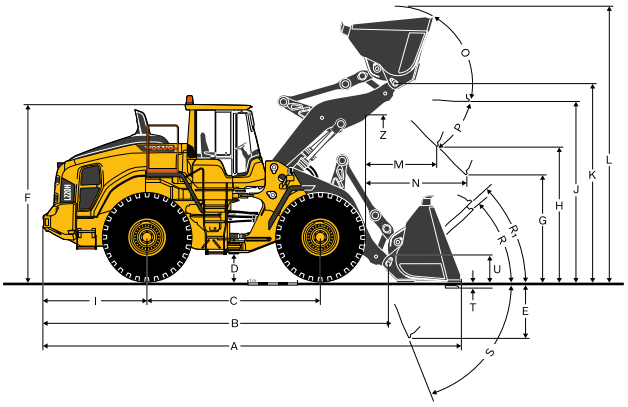
Lift Arm System

Torque Parallel linkage (TP-linkage) with high breakout torque and parallel action throughout the entire lifting range.

Lift cylinders		2
Cylinder bore	mm (in)	180 (7.1)
Piston rod diameter	mm (in)	90 (3.5)
Stroke	mm (in)	809 (31.9)
Tilt cylinder		1
Cylinder bore	mm (in)	240 (9.4)
Piston rod diameter	mm (in)	120 (4.7)
Stroke	mm (in)	480 (18.9)

Specifications





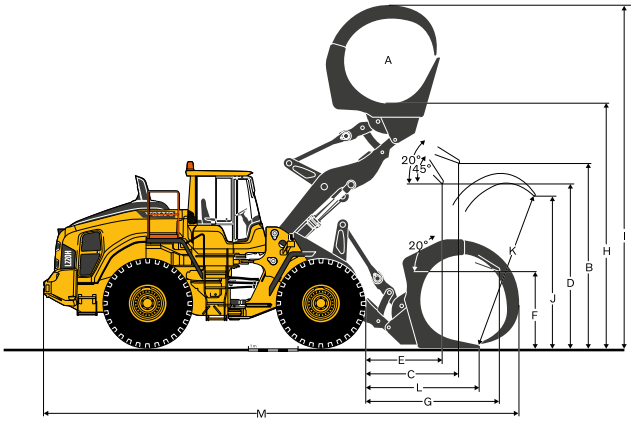
DIMENSIONS

Tires: 26.5 R25 L3			L180H			
			Standard boom		Long boom	
B	mm	ft in	7,200	23‘ 7“	7,630	25‘ 0“
C	mm	ft in	3,550	11‘ 8“	3,550	11‘ 8“
D	mm	ft in	490	1‘ 7“	480	1‘ 7“
F	mm	ft in	3,590	11‘ 9“	3,580	11‘ 9“
G	mm	ft in	2,134	7‘ 0“	2,133	7‘ 0“
I	mm	ft in	2,240	7‘ 4“	2,240	7‘ 4“
J	mm	ft in	4,170	13‘ 8“	4,670	15‘ 4“
K	mm	ft in	4,590	15‘ 1“	5,100	16‘ 9“
O	°		57		55	
P_{max}	°		46		46	
R	°		44		48	
R_1*	°		48		53	
S	°		71		63	
T	mm	ft in	136	0‘ 5“	218	0‘ 9“
U	mm	ft in	570	1‘ 10“	660	2‘ 2“
X	mm	ft in	2,280	7‘ 6“	2,280	7‘ 6“
Y	mm	ft in	2,960	9‘ 9“	2,960	9‘ 9“
Z	mm	ft in	3,810	12‘ 6“	4,170	13‘ 8“
a_2	mm	ft in	6,790	22‘ 3“	6,790	22‘ 3“
a_3	mm	ft in	3,820	12‘ 7“	3,820	12‘ 7“
a_4	±°		37		37	

* Carry position SAE
Bucket: WLA87106 4.4 m³ (5.8 yd³) GP STE P T SEG
Grapples:
Sales code: WLA80027
Operating weight (incl. logging cw 1,140 kg (2,510 lb)): 29,470 kg (64,980 lb)
Operating load: 8,710 kg (19,210 lb)
Where applicable, specifications and dimensions are according to ISO 7131, SAE J732, ISO 7546, SAE J742, ISO 14397, SAE J818.

DIMENSIONS

Tires : 775/65 R29 L3			L180H	
A	m²	yd²	3.5	4.2
B	mm	in	3,980	13‘ 1“
C	mm	in	2,030	6‘ 8“
D	mm	in	3,260	10‘ 8“
E	mm	in	1,590	5‘ 3“
F	mm	in	1,700	5‘ 7“
G	mm	in	3,040	10‘ 0“
H	mm	in	5,290	17‘ 4“
I	mm	in	7,730	25‘ 4“
J	mm	in	3,370	11‘ 0“
K	mm	in	3,720	12‘ 2“
L	mm	in	2,410	7‘ 11“
M	mm	in	9,990	32‘ 9“



L180H

Tires 26.5 R25 L3				REHANDLING (1)								GENERAL PURPOSE								ROCK (2)		LIGHT MATERIAL		LONG BOOM	
																						-	
				WLA86752		WLA86754		WLA86755		WLA86757		WLA87106		WLA87113		WLA87118		WLA87518		WLA92117		WLA87106	
				4.8 m³ (6.3 yd³) STE P BOE		5.2 m³ (6.8 yd³) STE P BOE		5.5 m³ (7.2 yd³) STE P BOE		5.8 m³ (7.6 yd³) STE H BOE		4.4 m³ (5.8 yd³) STE P T SEG		4.6 m³ (6.0 yd³) STE P T SEG		4.8 m³ (6.3 yd³) STE P T SEG		4.2 m³ (5.5 yd³) SPN P T SEG		7.8 m³ (10.2 yd³) LM P BOE		4.4 m³ (5.8 yd³) STE P T SEG	
Volume, heaped ISO/SAE		m³	yd³	4.8	6.3	5.2	6.8	5.5	7.2	5.8	7.6	4.4	5.8	4.6	6.0	4.8	6.3	4.2	5.5	7.8	10.2	-	-
Volume at 110% fill factor		m³	yd³	5.3	6.9	5.7	7.5	6.1	7.9	6.4	8.3	4.8	6.3	5.1	6.6	5.3	6.9	4.6	6.0	8.6	11.2	-	-
Static tipping load, straight		kg	lb	23,510	51,850	23,400	51,590	23,230	51,230	22,300	49,170	21,540	47,500	21,360	47,090	21,270	46,910	22,050	48,630	20,370	44,910	-3,790	-8,360
at 35° turn		kg	lb	20,870	46,020	20,750	45,760	20,590	45,410	19,720	43,480	19,160	42,240	18,960	41,810	18,880	41,640	19,570	43,160	18,020	39,740	-3,460	-7,630
at full turn		kg	lb	20,570	45,350	20,450	45,100	20,290	44,750	19,420	42,830	18,890	41,640	18,690	41,210	18,610	41,030	19,290	42,530	17,760	39,150	-3,430	-7,550
Breakout force		kN	lbf	224.9	50,560	224.2	50,400	216.2	48,610	199.2	44,790	236.1	53,080	231.9	52,140	226.5	50,940	211.5	47,550	173.5	39,000	+3.9	+880
A	Overall length	mm	ft in	8,900	29'2"	8,900	29'2"	8,970	29'5"	9,100	29'10"	9,010	29'7"	9,040	29'8"	9,080	29'10"	9,190	30'2"	9,360	30'9"	+470	+1'7"
E	Digging depth, max dump (S)	mm	ft in	1,430	4'8"	1,430	4'8"	1,490	4'11"	1,620	5'4"	1,530	5'0"	1,560	5'1"	1,600	5'3"	1,680	5'6"	1,860	6'1"	+30	+0'2"
H (3)	Dump clearance	mm	ft in	3,170	10'5"	3,170	10'5"	3,130	10'3"	3,040	10'0"	3,100	10'2"	3,080	10'1"	3,050	10'0"	3,000	9'10"	2,850	9'4"	+500	+1'8"
L	Overall operating height	mm	ft in	6,210	20'5"	6,220	20'5"	6,280	20'7"	6,390	20'11"	6,220	20'5"	6,260	20'6"	6,290	20'8"	6,350	20'10"	6,420	21'1"	+500	+1'8"
M (3)	Dump reach	mm	ft in	1,210	4'0"	1,210	4'0"	1,250	4'1"	1,360	4'5"	1,300	4'3"	1,320	4'4"	1,340	4'5"	1,400	4'7"	1,540	5'1"	-30	-0'2"
N (3)	Reach at 45° discharge, pos. G	mm	ft in	1,960	6'5"	1,970	6'5"	1,990	6'6"	2,040	6'9"	2,010	6'7"	2,020	6'8"	2,040	6'8"	2,070	6'10"	2,050	6'9"	+420	+1'5"
V	Bucket width	mm	in	3,200	125"	3,400	133"	3,400	133"	3,400	133"	3,200	125"	3,200	125"	3,200	125"	3,230	127"	3,400	133"	0	+0'0"
a_1	Outer clearance circle (diameter)	mm	ft in	15,040	49'4"	15,230	50'0"	15,260	50'1"	15,330	50'4"	15,110	49'7"	15,120	49'7"	15,140	49'8"	15,240	50'0"	15,480	50'10"	+340	+1'4"
Operating weight without load		kg	lb	28,080	61,910	28,170	62,120	28,280	62,360	28,690	63,260	26,930	59,390	26,990	59,510	27,040	59,630	27,970	61,670	27,410	60,450	+310	+680

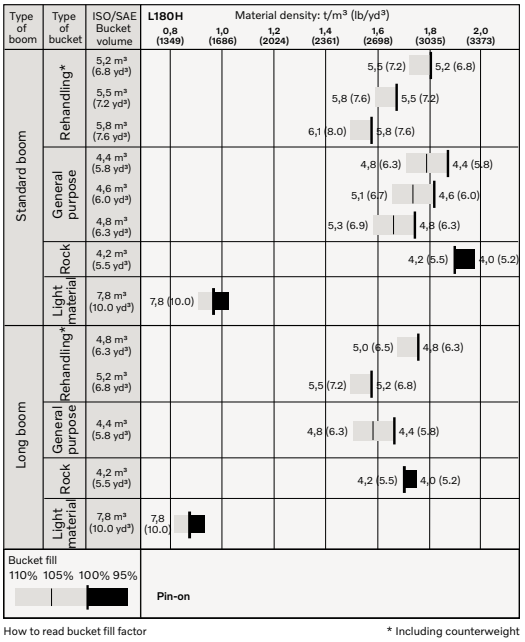
(1) Measured with additional counterweight.
(2) Measured with 26.5 R25 L5 tires.
(3) Measured to the tip of the bucket teeth or bolt-on edge. Dump height to bucket edge measured at 45° dump angle.
Note: This only applies to genuine Volvo attachments.

Bucket Selection Chart

The chosen bucket is determined by the density of the material and the expected bucket fill factor. The actual bucket volume is often larger than the rated capacity, due to the features of the TP linkage, including an open bucket design, good rollback angles in all positions and good bucket filling performance. The example represents a standard boom configuration.
Example: Sand and gravel. Fill factor ~ 105%. Density 1.6 t/m³.
Result: The 4.6 m³ bucket carries 4.8 m³. For optimum stability always consult the bucket selection chart

Material	Bucket fill, %		Material density		ISO/SAE bucket volume		Actual volume	
			t/m³	lb/yd³	m³	yd³	m³	yd³
Earth/ Clay	~ 110		~ 1.7	~ 2,867	4.9	6.4	~ 4.8	~ 6.3
			~ 1.6	~ 2,698	5.2	6.8	~ 5.1	~ 6.7
			~ 1.5	~ 2,530	5.4	7.1	~ 5.3	~ 6.9
Sand/ Gravel	~ 105		~ 1.7	~ 2,867	4.4	5.8	~ 4.6	~ 6.0
			~ 1.6	~ 2,698	4.6	6.0	~ 4.8	~ 6.3
			~ 1.5	~ 2,530	4.8	6.3	~ 5.1	~ 6.7
Aggregate	~ 100		~ 1.8	~ 3,035	5.2	6.8	~ 5.2	~ 6.8
			~ 1.7	~ 2,867	5.5	7.2	~ 5.5	~ 7.2
			~ 1.6	~ 2,698	5.8	7.6	~ 5.8	~ 7.6
Rock	≤100		~ 1.7	~ 2,867	4.3	5.6	~ 4.3	~ 5.6

The size of rock buckets is optimized for optimal penetration and filling capability rather than the density of the material.



How to read bucket fill factor

* Including counterweight

Supplemental Operating Data

Tires 26.5 R25 L3			Standard boom						Long boom					
			26.5 R25 L4		26.5 R25 L5		775/65 R29 L3		26.5 R25 L4		26.5 R25 L5		775/65 R29 L3	
Width over tires	mm	in	+ 10	+ 0.4	+ 10	+ 0.4	+ 170	+ 6.7	+ 10	+ 0.4	+ 10	+ 0.4	+ 170	+ 6.7
Ground clearance	mm	in	- 10	- 0.4	0	0	+ 30	+ 1.2	+ 10	+ 0.4	0	0	+ 30	+ 1.2
Tipping load, full turn	kg	lb	+ 410	+ 900	+ 490	+ 1,080	+ 570	+ 1,260	+ 380	+ 830	+ 430	+ 960	+ 500	+ 1,110
Operating weight	kg	lb	+ 460	+ 1,020	+ 710	+ 1,570	+ 770	+ 1,700	+ 460	+ 1,020	+ 710	+ 1,570	+ 770	+ 1,700

Equipment

STANDARD EQUIPMENT

Engine

- Exhaust after-treatment system
- Two stage air cleaner, pre-cleaner, primary and secondary filter
- Preheating of induction air
- Fuel pre-filter with water trap
- Fuel filter
- Crankcase breather oil trap
- Exterior radiator air intake protection

Drivetrain

- Automatic Power Shift
- Fully automatic gearshifting, 1-4
- PWM-controlled gearshifting
- Forward and reverse switch by hydraulic lever console
- Rimpull control
- Indicator glass for transmission oil level
- Differentials: Front, 100% hydraulic diff lock. Rear, conventional.
- Optishift with Lock-up, RBB
- Lock-up first gear

Electrical System

- 24 V, pre-wired for optional accessories
- Alternator 24V/80A/2280W
- Battery disconnect switch
- Fuel gauge
- Hour meter
- Electric horn
- Instrument cluster:
  - Fuel level
  - Diesel Exhaust Fluid/AdBlue level
  - Transmission temperature
  - Coolant temperature
  - Instrument lighting
- Lighting:
  - Twin halogen front headlights with high and low beams
  - Parking lights
  - Double brake and tail lights
  - Turn signals with flashing hazard light function
  - Halogen work lights (2 front and 2 rear)

STANDARD EQUIPMENT

Contronic monitoring system

- Monitoring and logging of machine data
- Contronic display
- Fuel consumption
- Diesel Exhaust Fluid/AdBlue consumption
- Ambient temperature
- Clock
- Test function for warning and indicator lights
- Brake test
- Test function, sound level at max fan speed
- Warning and indicator lights:
  - Battery charging
  - Parking brake
- Warning and display message:
  - Regeneration
  - Engine coolant temperature
  - Charge-air temperature
  - Engine oil temperature
  - Engine oil pressure
  - Transmission oil temperature
  - Transmission oil pressure
  - Hydraulic oil temperature
  - Brake pressure
  - Parking brake applied
  - Brake charging
  - Overspeed at direction change
  - Axle oil temperature
  - Steering pressure
  - Crankcase pressure
  - Attachment lock open
  - Safety Belt Warning
- Level warnings:
  - Fuel level
  - Diesel Exhaust Fluid/AdBlue level
  - Engine oil level
  - Engine coolant level
  - Transmission oil level
  - Hydraulic oil level
  - Washer fluid level
- Engine torque reduction in case of malfunction indication:
  - High engine coolant temperature
  - High engine oil temperature
  - Low engine oil pressure
  - High crankcase pressure
  - High charge-air temperature
- Engine shutdown to idle in case of malfunction indication:
  - High transmission oil temperature
  - Slip in transmission clutches
- Keypad, background lit
- Start interlock when gear is engaged

STANDARD EQUIPMENT

Hydraulic system

- Main valve, double acting 2-spool with hydraulic pilots
- Variable displacement axial piston pumps (3) for:
  1 Working hydraulics, Pilot hydraulics and Brake system
  2 Working hydraulics, Pilot hydraulics, Steering and Brake system
  3 Cooling fan and Brake system
- Electro-hydraulic servo controls
- Electronic hydraulic lever lock
- Automatic boom kick-out
- Automatic bucket positioner
- Double-acting hydraulic cylinders
- Indicator glass for hydraulic oil level
- Hydraulic oil cooler

Brake system

- Dual brake circuits
- Dual brake pedals
- Secondary brake system
- Parking brake, electro-hydraulic
- Brake wear indicators

Cab

- ROPS (ISO 3471), FOPS (ISO 3449)
- Single key kit door/start
- Acoustic inner lining
- Cigarette lighter, 24 V power outlet
- Lockable door
- Cab heating with fresh air inlet and defroster
- Fresh air inlet with two filters
- Automatic heat control
- Floor mat
- Dual interior lights
- Interior rear-view mirrors
- Dual exterior rear-view mirrors
- Sliding window, right side
- Tinted windshield glass
- Retractable seatbelt (SAE J386)
- Adjustable steering wheel
- Storage compartment
- Document pocket
- Sun visor
- Beverage holder
- Windshield washer front and rear
- Windshield wipers front and rear
- Interval function for front and rear wipers

STANDARD EQUIPMENT

Service and maintenance

- Engine oil remote drain and fill
- Transmission oil remote drain and fill
- Lubrication manifolds, ground accessible
- Pressure check connections: transmission and hydraulic, quick-connects
- Quick-fit hydraulic oil fill
- Tool box, lockable

External equipment

- Orange hand rails
- Fenders, front and rear
- Viscous cab mounts
- Rubber engine and transmission mounts
- Frame, joint lock
- Vandalism lock prepared for
  Engine compartment
  Radiator grille
- Lifting eyes
- Tie-down eyes
- Fabricated counterweight
- Counterweight, pre-drilled for optional guards

Equipment

OPTIONAL EQUIPMENT
Engine
Air pre-cleaner, cyclone type
Air pre-cleaner, oil-bath type
Air pre-cleaner, turbo type
Engine auto shutdown
Engine delayed shutdown
Engine block heater 230V/110V
Fuel fill strainer
Fuel heater
Hand throttle control
Max. fan speed, hot climate
Radiator, corrosion-protected
Reversible cooling fan
Reversible cooling fan and axle oil cooler
Wheels and tires
26.5 R25
775/65 R29
Drivetrain
Diff lock front 100%, Limited Slip rear
Speed limiter
Wheel/axle seal guards
Electrical System
Anti-theft device
Emergency stop
Locking device, Tag out Lock out
Headlights, assym. left
License plate holder, lighting
Rear vision system, colour LCD monitor in the cab
Rear view mirrors, Long arm
Rear view mirrors, adjustable, el.heated, Long arm
Reduced function working lights, reverse gear activated
Reverse alarm, audible
Reverse alarm, white noise
Reverse warning light, strobe lighting
Seatbelt indicator, external
Shortened headlight support brackets
Side marker lamps
Warning beacon LED
Warning beacon LED automatic
LED Head Light
LED tail light
LED working lights, attachments
LED working lights on cab, front and rear
LED working lights on cab, front, 2 alt. 4 LED lamps
LED working lights on cab, rear, 2 alt. 4 LED lamps
LED working lights, rear in grille, 2 LED lamps
LED working lights, front above head lamps, 2 LED lamps
LED work lights, side on cab, 4 LED lamps
LED light packages
Working lights halogen, attachments
Working lights on cab halogen, front and rear
Working lights on cab halogen, rear
Electrical distribution unit 24 volt
Alternator 120 amp, heavy-duty
Radar detect system
Forward camera, colour
Parking brake alarm, audible for air susp seats
Jump start connector, NATO-Type
Max Boom height
Can Bus Interface
Delayed Engine Shutdown
Co Pilot available
Rearview camera in Co pilot
OnBoard Weighing
Tire pressure monitoring
MAP

OPTIONAL EQUIPMENT
Hydraulic system
Boom suspension system
Separate attachment locking
Arctic kit, for 3rd function
Boom cylinder hose and tube guards
Hydraulic fluid, biodegradable, Volvo
Hydraulic fluid, fire-resistant
Hydraulic fluid, for hot climate
Hydraulic 3rd function
hydraulic 3rd-4th function
Single lever control, hydraulics 2 functions
Single lever control, hydraulics 3 functions
Single lever control, hydraulics 4 functions
Brake system
Oil cooler and filter front & rear axle
Stainless steel, brake lines
Cab
Anchorage for Operator's manual
Automatic Climate Control, ACC
ACC control panel, with Fahrenheit scale
Asbestos dust protection filter
Ashtray
Cab air pre-cleaner, cyclone type
Carbon filter
Cover plate, under cab
Lunch box holder
Volvo Armrest, operator's seat, left
Operator's seat, Volvo air susp, heavy-duty, high back, heated
Operator's seat, (air seat std) 2-point seat belt
Operator's seat, (air seat std) 3-point seat belt
Operator's seat, Premium Comfort ISRI
Operator's seat, Premium Comfort ISRI 3-point seat belt
Radio installation kit incl. 12 volt outlet, left side
Radio installation kit incl. 12 volt outlet, right side
Radio (with AUX, Bluetooth and USB connection)
DAB Radio
Subwoofer
Steering wheel knob
Sun blinds, rear windows
Sun blinds, side windows
Timer cab heating
Window, sliding, door
Universal door/ignition key
Remote door opener
Forward view mirror
Cab heater power outlet 240V
Cab, Hot applications. Roof, steel
Fire extinguisher cab
Outside steel protection cab
Rear view mirrors long arm, cab
Reinforced windshield, flat

OPTIONAL EQUIPMENT

Service and maintenance
Automatic lubrication system
Automatic lubrication system for long boom
Grease nipple guards
Oil sampling valve
Quick engine oil change
Refill pump for grease to lube system
Tool kit
Wheel nut wrench kit
CareTrack, GSM, GSM/Satellite
Telematics, Subscription
Belly guard front
Belly guard rear
Cover plate, heavy-duty, front frame
Cover plate, rear frame
Cab roof, heavy-duty
Guards for front headlights
Guards for radiator grill
Guards for tail lights
Windows, side and rear guards
Windshield guard
Corrosion protection, painting of machine
Corrosion protection, painting of attachment bracket
Option for machines without dinitrol
Bucket Teeth protection
External equipment
Cab ladder, rubber-suspended
Escape Ladder, left fender
Handles on counterweight
Deleted front mudguards
Fire suppression system
Mudguards, full cover, front and rear for 80-series tires
Mudguards, full cover, front and rear for 65-series tires
Long boom
Tow hitch
Other equipment
CE-marking
Comfort Drive Control (CDC)
Counterweight, logging
Counterweight, signal painted, chevrons
Secondary steering with automatic test function
Sound decal, EU
Sound decal, USA
Reflecting stickers (decals), machine contour
Reflecting stickers (stripes), machine contour Cab
Noise reduction kit, exterior
Attachments
Buckets:
Rock straight or spade nose
General purpose
Re-handling
Side-dump
Light material
Wear parts:
Bolt-on and weld-on bucket teeth
Segments
Cutting edge in three sections, bolt-on
Fork equipment
Material handling arm
Log grapples

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