

V O L V O



Volvo Wheel Loaders 31.2-33.1 t / 68,780-72,970 lb 375 hp

L220H

Volvo Construction Equipment

L220H



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 L220H in detail

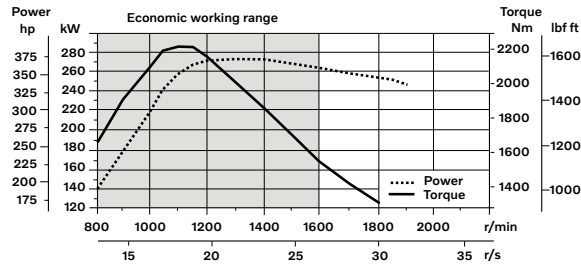
Engine

V-ACT Stage IV/Tier 4F 13 liter, 6-cylinder straight turbocharged diesel engine with 4 valves per cylinder, overhead camshaft and electronically controlled unit injectors. The engine has wet replaceable cylinder liners and replaceable 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)	280 (375)
ISO 9249, SAE J1349 net	kW (hp)	279 (374)
Max. torque at	r/min (r/s)	1,100 (18.3)
ECE R120 net	Nm (ft lbf)	2,276 (1,679)
ISO 9249, SAE J1349 net	Nm (ft lbf)	2,265 (1,671)
Economic working range	r/min (r/s)	800 - 1 600 (13.3 - 26.7)
Displacement	l (in ³)	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 310
Torque multiplication, stall ratio		2.02:1
Maximum speed, forward/reverse		
1st gear	km/h (mi/h)	6.7 / 6.6 (4.2 / 4.1)
2nd gear	km/h (mi/h)	11.6 / 11.4 (7.2 / 7.1)
3rd gear	km/h (mi/h)	21.7 / 21.4 (13.5 / 13.3)
4th gear	km/h (mi/h)	36.5 / 36.1 (22.7 / 22.4)
Measured with tires		29.5 R25 L4
Front axle/rear axle		Volvo/AWB 50/41
Rear axle oscillation	± °	15
Ground clearance	mm (in)	600 (23.6)
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		2/1
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 CO₂-eq.

Emergency exit: Use emergency hammer to break window

Ventilation	m ³ /min (yd ³ /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	109

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)	252 (66.6)
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	6.8
Tilt	s	1.6
Lower, empty	s	3.2
Total cycle time	s	11.6

Steering System

Steering system: Load-sensing hydrostatic articulated steering.

System supply: The steering system has priority feed from a load-sensing 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.

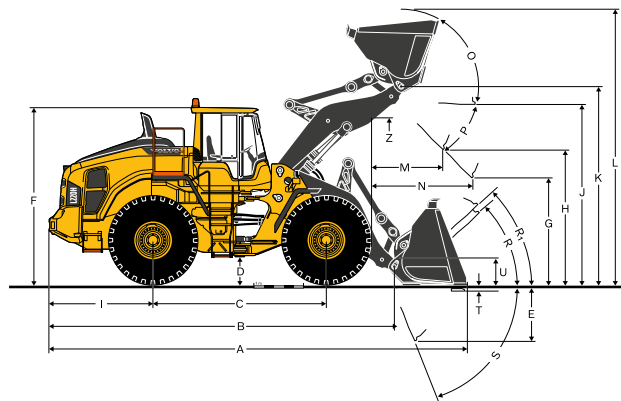
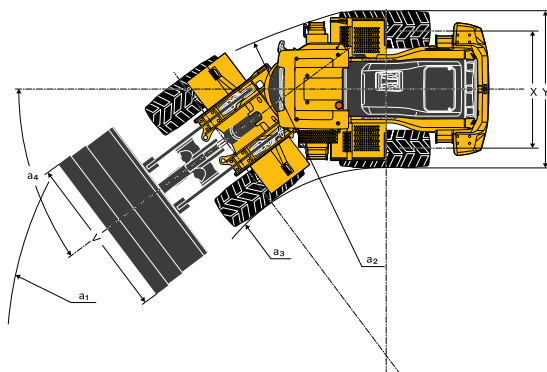
Fuel tank	l (gal)	366 (96.7)
DEF/AdBlue® tank	l (gal)	31 (8.2)
Engine coolant	l (gal)	55 (14.5)
Hydraulic oil tank	l (gal)	226 (59.7)
Transmission oil	l (gal)	48 (12.7)
Engine oil	l (gal)	50 (13.2)
Axle oil front	l (gal)	77 (20.3)
Axle oil rear	l (gal)	71 (18.8)

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)	190 (7.5)
Piston rod diameter	mm (in)	90 (3.5)
Stroke	mm (in)	768 (30.2)
Tilt cylinder		1
Cylinder bore	mm (in)	250 (9.8)
Piston rod diameter	mm (in)	120 (4.7)
Stroke	mm (in)	455 (17.9)

Specifications



DIMENSIONS

Tires: 29.5 R25 L4

				L220H			
				Standard boom		Long boom	
B	mm	ft in		7,490	24' 7"	7,810	25' 7"
C	mm	ft in		3,700	12' 2"	3,700	12' 2"
D	mm	ft in		520	1' 8"	510	1' 8"
F	mm	ft in		3,710	12' 2"	3,710	12' 2"
G	mm	ft in		2,135	7' 0"	2,133	7' 0"
I	mm	ft in		2,240	7' 4"	2,240	7' 4"
J	mm	ft in		4,210	13' 10"	4,580	15' 0"
K	mm	ft in		4,650	15' 3"	5,010	16' 5"
O		°		56		56	
P _{max}		°		48		48	
R		°		44		44	
R ₁ *		°		47		49	
S		°		65		63	
T	mm	ft in		138	0' 5"	144	0' 6"
U	mm	ft in		590	1' 11"	670	2' 2"
X	mm	ft in		2,400	7' 10"	2,400	7' 10"
Y	mm	ft in		3,150	10' 4"	3,150	10' 4"
Z	mm	ft in		4,040	13' 3"	4,370	14' 4"
a ₂	mm	ft in		7,100	23' 4"	7,100	23' 4"
a ₃	mm	ft in		3,960	13' 0"	3,960	13' 0"
a ₄		±°		37		37	

* Carry position SAE

Bucket: WLA87132 5.2 m³ (6.8 yd³) GP STE PT SEG

Sales code: WLA80852

Operating weight (incl. logging cw 870 kg (1,920 lb)): 33,200 kg (73,200 lb)

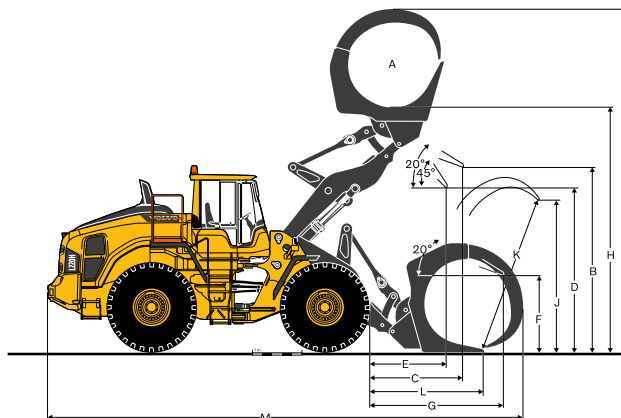
Operating load: 10,080 kg (22,220 lb)

Where applicable, specifications and dimensions are according to ISO 7131, SAE J732, ISO 7546, SAE J742, ISO 14397, SAE J818.

DIMENSIONS

Tires: 875/65 R29 L4

				L220H	
A	m ²	yd ²		4.0	4.8
B	mm	in		3,900	12' 10"
C	mm	in		2,270	7' 5"
D	mm	in		3,140	10' 4"
E	mm	in		1,780	5' 10"
F	mm	in		1,620	5' 4"
G	mm	in		3,230	10' 7"
H	mm	in		5,330	17' 6"
I	mm	in		7,710	25' 3"
J	mm	in		3,620	11' 11"
K	mm	in		3,940	12' 11"
L	mm	in		2,650	8' 8"
M	mm	in		10,410	34' 2"



L220H

Tires 29.5 R25 L3

		REHANDLING ⁽¹⁾				GENERAL PURPOSE				ROCK ⁽²⁾	LIGHT MATERIAL	LONG BOOM
												-
		WLA86759	WLA86760	WLA86761	WLA86758	WLA87132	WLA87135	WLA87137	WLA87526	WLA93450	WLA87132	
		5.6 m ³ (7.3 yd ³) STE P BOE	5.9 m ³ (7.7 yd ³) STE P BOE	6.3 m ³ (8.2 yd ³) STE P BOE	6.3 m ³ (8.2 yd ³) STE H BOE	5.2 m ³ (6.8 yd ³) STE P T SEG	5.6 m ³ (7.3 yd ³) STE P T SEG	6.0 m ³ (7.8 yd ³) STE P T SEG	5.0 m ³ (6.5 yd ³) SPN P T SEG	8.2 m ³ (10.7 yd ³) LM P BOE	5.2 m ³ (6.8 yd ³) STE P T SEG	
Volume, heaped ISO/SAE	m ³ yd ³	5.6 7.3	5.9 7.7	6.3 8.2	6.3 8.2	5.2 6.8	5.6 7.3	6.0 7.8	5.0 6.5	8.2 10.7	-	-
Volume at 110% fill factor	m ³ yd ³	6.2 8.1	6.5 8.5	6.9 9.1	6.9 9.1	5.7 7.5	6.2 8.1	6.6 8.6	5.5 7.2	9.1 11.8	-	-
Static tipping load, straight	kg lb	25,080 55,310	24,930 54,960	24,750 54,580	23,890 52,680	23,680 52,210	23,520 51,870	23,650 52,150	23,770 52,420	22,810 50,300	-2,850 -6,290	
at 35° turn	kg lb	22,260 49,070	22,100 48,740	21,930 48,360	21,120 46,580	21,020 46,340	20,860 46,010	20,970 46,230	21,060 46,430	20,190 44,520	-2,620 -5,770	
at full turn	kg lb	21,930 48,360	21,780 48,030	21,610 47,650	20,810 45,880	20,710 45,670	20,560 45,340	20,660 45,560	20,750 45,750	19,890 43,860	-2,590 -5,720	
Breakout force	kN lbf	228.8 51,450	223.1 50,160	215.0 48,350	204.6 46,000	241.1 54,220	232.6 52,290	235.5 52,950	197.0 44,300	190.8 42,910	+3.2 +720	
A Overall length	mm ft in	9,270 30'5"	9,320 30'7"	9,390 30'10"	9,480 31'1"	9,410 30'10"	9,470 31'1"	9,450 31'0"	9,760 32'0"	9,590 31'5"	+310 +10"	
E Digging depth, max dump (S)	mm ft in	1,470 4'10"	1,510 4'11"	1,570 5'2"	1,650 5'5"	1,590 5'2"	1,640 5'5"	1,620 5'4"	1,880 6'2"	1,750 5'9"	-30 +0'1"	
H ⁽³⁾ Dump clearance	mm ft in	3,160 10'4"	3,130 10'3"	3,080 10'1"	3,080 10'1"	3,070 10'1"	3,030 9'11"	3,040 10'0"	2,850 9'4"	2,910 9'7"	+360 +1'2"	
L Overall operating height	mm ft in	6,360 20'11"	6,410 21'0"	6,470 21'3"	6,530 21'5"	6,370 20'11"	6,440 21'2"	6,590 21'7"	6,330 20'9"	6,450 21'2"	+360 +1'2"	
M ⁽³⁾ Dump reach	mm ft in	1,400 4'7"	1,440 4'8"	1,480 4'10"	1,610 5'4"	1,500 4'11"	1,540 5'1"	1,520 5'0"	1,740 5'9"	1,610 5'3"	-30 -0'1"	
N ⁽³⁾ Reach at 45° discharge, pos. G	mm ft in	2,100 6'11"	2,120 6'11"	2,150 7'1"	2,190 7'2"	2,160 7'1"	2,180 7'2"	2,170 7'2"	2,290 7'6"	2,180 7'2"	+270 +0'11"	
V Bucket width	mm in	3,400 133"	3,400 133"	3,400 133"	3,400 133"	3,400 133"	3,400 133"	3,400 133"	3,430 135"	3,700 145"	0 +0'0"	
a ₁ Outer clearance circle (diameter)	mm ft in	15,810 51'10"	15,830 51'11"	15,870 52'1"	15,920 52'3"	15,880 52'1"	15,920 52'3"	15,910 52'2"	16,120 52'11"	16,250 53'4"	+270 +0'11"	
Operating weight without load	kg lb	32,000 70,550	32,100 70,780	32,210 71,020	32,620 71,920	31,260 68,920	31,370 69,170	31,490 69,420	32,660 72,030	31,710 69,910	+380 +1'3"	

(1) Measured with additional counterweight.

(2) Measured with 29.5 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 5.2 m³ bucket carries 5.5 m³. For optimum stability always consult the bucket selection chart.

Material	Bucket fill, %	Material density		ISO/SAE bucket volume		Actual volume	
		m ³	lb/yd ³	m ³	yd ³	m ³	yd ³
Earth/Clay	~ 110 	~ 1.6	~ 2,698	4.9	6.4	~ 5.4	~ 7.1
		~ 1.5	~ 2,530	5.2	6.8	~ 5.7	~ 7.5
		~ 1.4	~ 2,361	5.4	7.1	~ 5.9	~ 7.7
Sand/Gravel	~ 105 	~ 1.7	~ 2,867	4.9	6.4	~ 5.1	~ 6.7
		~ 1.6	~ 2,698	5.2	6.8	~ 5.5	~ 7.2
		~ 1.5	~ 2,530	5.4	7.1	~ 5.7	~ 7.5
Aggregate	~ 100 	~ 1.8	~ 3,035	5.6	7.3	~ 5.6	~ 7.3
		~ 1.7	~ 2,867	5.9	7.7	~ 5.9	~ 7.7
		~ 1.6	~ 2,698	6.3	8.2	~ 6.3	~ 8.2
Rock	≤100 	~ 1.7	~ 2,867	4.5	5.9	~ 4.5	~ 5.9

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

Type of boom	Type of bucket	ISO/SAE Bucket volume	Material density: t/m ³ (lb/yd ³)							
			0.8 (1349)	1.0 (1686)	1.2 (2024)	1.4 (2361)	1.6 (2698)	1.8 (3035)	2.0 (3373)	
Standard boom	Rehandling*	5.6 m ³ (7.3 yd ³)						5.9 (7.7)	5.6 (7.3)	
		5.9 m ³ (7.7 yd ³)						6.2 (8.1)	5.9 (7.7)	
		6.3 m ³ (8.2 yd ³)						6.6 (8.6)	6.3 (8.2)	
	General purpose	4.9 m ³ (6.4 yd ³)						5.4 (7.1)	4.9 (6.4)	
Long boom		5.2 m ³ (6.8 yd ³)						5.7 (7.5)	5.2 (6.8)	
		5.6 m ³ (7.3 yd ³)						6.2 (8.1)	5.6 (7.3)	
	Rock	4.5 m ³ (5.9 yd ³)							4.5 (5.9)	4.3 (5.6)
		5.0 m ³ (6.5 yd ³)						5.0 (6.5)	5.3 (6.9)	
Long boom	Light material	8.2 m ³ (10.7 yd ³)	8.2 (10.7)							
	Rehandling*	5.6 m ³ (7.3 yd ³)						5.9 (7.7)	5.6 (7.3)	
		5.9 m ³ (7.7 yd ³)						6.2 (8.1)	5.9 (7.7)	
	General purpose	4.9 m ³ (6.4 yd ³)						5.4 (7.1)	4.9 (6.4)	
Long boom		5.2 m ³ (6.8 yd ³)								
	Rock	4.5 m ³ (5.9 yd ³)						4.5 (5.9)	4.3 (5.6)	
		5.0 m ³ (6.5 yd ³)								
	Light material	8.2 m ³ (10.7 yd ³)	8.2 (10.7)							

How to read bucket fill factor

* Including counterweight

Supplemental Operating Data

Tires 29.5 R25 L3		Standard boom				Long boom			
		29.5 R25 L4		29.5 R25 L5		29.5 R25 L4		29.5 R25 L5	
Width over tires	mm in	+ 30	+ 1.2	+ 10	+ 0.4	+ 120	+ 4.7	+ 30	+ 1.2
Ground clearance	mm in	- 20	- 0.8	+ 20	+ 0.8	- 10	- 0.4	+ 30	+ 1.2
Tipping load, full turn	kg lb	+ 500	+ 1,100	+ 630	+ 1,390	+ 450	+ 990	+ 460	+ 1,020
Operating weight	kg lb	+ 490	+ 1,080	+ 1,020	+ 2,250	+ 840	+ 1,850	+ 500	+ 1,100

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

29.5 R25
 875/65 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
 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

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
Option for machines without dinitrol

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

V O L V O