

V O L V O



Volvo Wheel Loaders 24.1-25.6 t / 53,130-56,440 lb 300 hp

L150H

Volvo Construction Equipment

L150H



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 L150H in detail

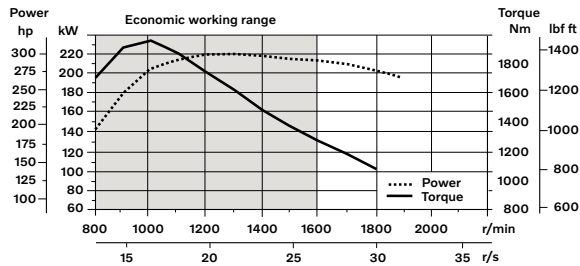
Engine

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 (21.7)
ECE R120 net	kW (hp)	224 (300)
ISO 9249, SAE J1349 net	kW (hp)	223 (299)
Max. torque at	r/min (r/s)	1,000 (16.7)
ECE R120 net	Nm (ft lbf)	1,999 (1,474)
ISO 9249, SAE J1349 net	Nm (ft lbf)	1,996 (1,472)
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 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/40C
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 + 3 x 0.5 (2 x 0.26 + 3 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	69
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)	180 (47.6)
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	5.9
Tilt	s	2
Lower, empty	s	3.7
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)	390 (15.4)
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.

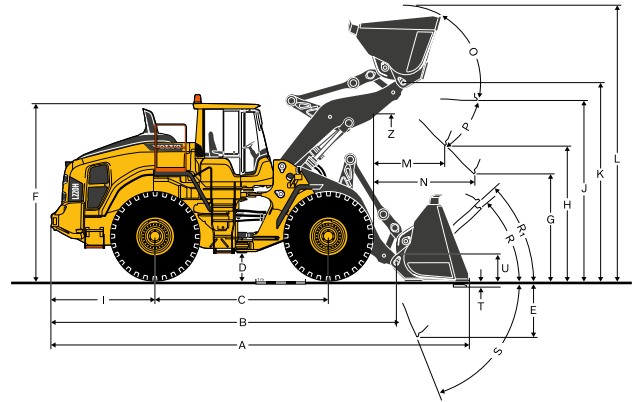
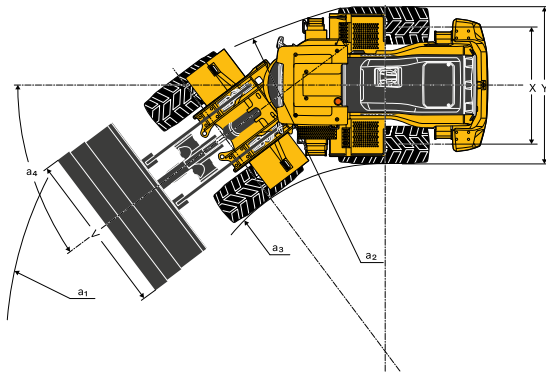
Fuel tank	l (gal)	366 (96.7)
DEF/AdBlue® tank	l (gal)	31 (8.2)
Engine coolant	l (gal)	55 (14.5)
Hydraulic oil tank	l (gal)	156 (41.2)
Transmission oil	l (gal)	48 (12.7)
Engine oil	l (gal)	50 (13.2)
Axle oil front	l (gal)	46 (12.2)
Axle oil rear	l (gal)	55 (14.5)

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)	160 (6.3)
Piston rod diameter	mm (in)	90 (3.5)
Stroke	mm (in)	802 (31.6)
Tilt cylinder		1
Cylinder bore	mm (in)	220 (8.7)
Piston rod diameter	mm (in)	110 (4.3)
Stroke	mm (in)	452 (17.8)

Specifications



DIMENSIONS

Tires: 26.5 R25 L3

			L150H			
			Standard boom		Long boom	
B	mm	ft in	7,060	23' 2"	7,560	24' 10"
C	mm	ft in	3,550	11' 8"	3,550	11' 8"
D	mm	ft in	480	1' 7"	480	1' 7"
F	mm	ft in	3,580	11' 9"	3,580	11' 9"
G	mm	ft in	2,134	7' 0"	2,134	7' 0"
I	mm	ft in	2,185	7' 2"	2,185	7' 2"
J	mm	ft in	4,040	13' 3"	4,620	15' 2"
K	mm	ft in	4,460	14' 7"	5,040	16' 6"
O		°	58		59	
P _{max}		°	46		46	
R		°	44		48	
R ₁ *		°	47		52	
S		°	66		61	
T	mm	ft in	95	0' 4"	149	0' 6"
U	mm	ft in	520	1' 9"	640	2' 1"
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	3,510	11' 6"	3,960	13' 0"
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: WLA87104 4.0 m³ (5.2 yd³) GP STE PT SEG

Grapples:

Sales code: WLA80713

Operating weight (incl. logging cw 1,140 kg (2,510 lb)): 26,470 kg (58,370 lb)

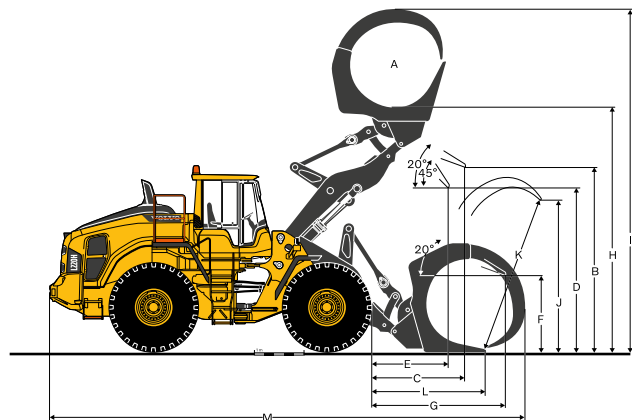
Operating load: 7,700 kg (16,980 lb)

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

			L150H	
A	m ²	yd ²	3.1	3.7
B	mm	in	3,780	12' 5"
C	mm	in	1,990	6' 6"
D	mm	in	3,080	10' 1"
E	mm	in	1,530	5' 0"
F	mm	in	1,630	5' 4"
G	mm	in	2,930	9' 7"
H	mm	in	5,110	16' 9"
I	mm	in	7,390	24' 3"
J	mm	in	3,080	10' 1"
K	mm	in	3,340	10' 11"
L	mm	in	2,290	7' 6"
M	mm	in	9,670	31' 9"



L150H

Tires 26.5 R25 L3		REHANDLING ⁽¹⁾								GENERAL PURPOSE				ROCK ⁽²⁾		LIGHT MATERIAL		LONG BOOM	
																			
		WLA86748	WLA86749	WLA86752	WLA86751	WLA87104	WLA87107	WLA87109	WLA87512	WLA92032	WLA87104	WLA87104	WLA87104	WLA87104	WLA87104	WLA87104	WLA87104	WLA87104	WLA87104
		4.0 m ³ (5.2 yd ³) STE P BOE	4.4 m ³ (5.8 yd ³) STE P BOE	4.8 m ³ (6.3 yd ³) STE P BOE	5.2 m ³ (6.8 yd ³) STE H BOE	4.0 m ³ (5.2 yd ³) STE P T SEG	4.4 m ³ (5.8 yd ³) STE P T SEG	4.5 m ³ (5.9 yd ³) STE P T SEG	3.5 m ³ (4.6 yd ³) SPN P T SEG	6.8 m ³ (8.9 yd ³) LM P BOE	4.0 m ³ (5.2 yd ³) STEP T SEG	4.0 m ³ (5.2 yd ³) STEP T SEG	4.0 m ³ (5.2 yd ³) STEP T SEG	4.0 m ³ (5.2 yd ³) STEP T SEG	4.0 m ³ (5.2 yd ³) STEP T SEG	4.0 m ³ (5.2 yd ³) STEP T SEG	4.0 m ³ (5.2 yd ³) STEP T SEG	4.0 m ³ (5.2 yd ³) STEP T SEG	4.0 m ³ (5.2 yd ³) STEP T SEG
Volume, heaped ISO/SAE	m ³ yd ³	4.0 5.2	4.4 5.8	4.8 6.3	5.2 6.8	4.0 5.2	4.4 5.8	4.5 5.9	3.5 4.6	6.8 8.9	- -	- -	- -	- -	- -	- -	- -	- -	- -
Volume at 110% fill factor	m ³ yd ³	4.4 5.8	4.8 6.3	5.3 6.9	5.7 7.5	4.4 5.8	4.8 6.3	5.0 6.5	3.9 5.0	7.5 9.8	- -	- -	- -	- -	- -	- -	- -	- -	- -
Static tipping load, straight	kg lb	20,190 44,520	20,000 44,090	19,770 43,600	18,900 41,680	17,990 39,670	17,650 38,920	17,620 38,840	18,540 40,870	17,100 37,710	-3,530 -7,790	-3,530 -7,790	-3,530 -7,790	-3,530 -7,790	-3,530 -7,790	-3,530 -7,790	-3,530 -7,790	-3,530 -7,790	-3,530 -7,790
at 35° turn	kg lb	18,010 39,720	17,820 39,300	17,610 38,820	16,780 37,000	16,090 35,470	15,740 34,720	15,710 34,650	16,540 36,480	15,230 33,580	-3,250 -7,160	-3,250 -7,160	-3,250 -7,160	-3,250 -7,160	-3,250 -7,160	-3,250 -7,160	-3,250 -7,160	-3,250 -7,160	-3,250 -7,160
at full turn	kg lb	17,770 39,170	17,580 38,760	17,360 38,280	16,540 36,460	15,870 34,990	15,530 34,240	15,500 34,170	16,320 35,980	15,020 33,110	-3,220 -7,090	-3,220 -7,090	-3,220 -7,090	-3,220 -7,090	-3,220 -7,090	-3,220 -7,090	-3,220 -7,090	-3,220 -7,090	-3,220 -7,090
Breakout force	kN lbf	201.2 45,240	191.5 43,050	183.2 41,190	172.6 38,810	201.3 45,270	192.3 43,240	184.5 41,490	187.6 42,180	146.6 32,970	+92 +2,070	+92 +2,070	+92 +2,070	+92 +2,070	+92 +2,070	+92 +2,070	+92 +2,070	+92 +2,070	+92 +2,070
A Overall length	mm ft in	8,580 28'2"	8,660 28'5"	8,730 28'8"	8,830 28'11"	8,780 28'10"	8,860 29'1"	8,920 29'3"	8,870 29'1"	9,130 29'11"	+520 +1'8"	+520 +1'8"	+520 +1'8"	+520 +1'8"	+520 +1'8"	+520 +1'8"	+520 +1'8"	+520 +1'8"	+520 +1'8"
E Digging depth, max dump (S)	mm ft in	1,230 4'0"	1,300 4'3"	1,360 4'6"	1,450 4'9"	1,400 4'7"	1,470 4'10"	1,530 5'0"	1,480 4'10"	1,710 5'7"	+10 +0'0"	+10 +0'0"	+10 +0'0"	+10 +0'0"	+10 +0'0"	+10 +0'0"	+10 +0'0"	+10 +0'0"	+10 +0'0"
H ⁽³⁾ Dump clearance	mm ft in	3,150 10'4"	3,090 10'2"	3,040 10'0"	3,050 10'0"	3,010 9'11"	2,960 9'9"	2,920 9'7"	2,960 9'9"	2,770 9'1"	+580 +1'11"	+580 +1'11"	+580 +1'11"	+580 +1'11"	+580 +1'11"	+580 +1'11"	+580 +1'11"	+580 +1'11"	+580 +1'11"
L Overall operating height	mm ft in	5,930 19'6"	6,010 19'9"	6,080 19'11"	6,130 20'2"	6,010 19'8"	6,080 19'11"	6,160 20'2"	6,070 19'11"	6,210 20'4"	+580 +1'11"	+580 +1'11"	+580 +1'11"	+580 +1'11"	+580 +1'11"	+580 +1'11"	+580 +1'11"	+580 +1'11"	+580 +1'11"
M ⁽³⁾ Dump reach	mm ft in	1,100 3'7"	1,150 3'9"	1,200 3'11"	1,360 4'6"	1,240 4'1"	1,290 4'3"	1,330 4'5"	1,290 4'3"	1,480 4'10"	-70 -0'3"	-70 -0'3"	-70 -0'3"	-70 -0'3"	-70 -0'3"	-70 -0'3"	-70 -0'3"	-70 -0'3"	-70 -0'3"
N ⁽³⁾ Reach at 45deg discharge, pos. G	mm ft in	1,800 5'11"	1,830 6'0"	1,860 6'1"	1,900 6'3"	1,880 6'2"	1,910 6'3"	1,930 6'4"	1,920 6'4"	1,940 6'4"	+450 +1'6"	+450 +1'6"	+450 +1'6"	+450 +1'6"	+450 +1'6"	+450 +1'6"	+450 +1'6"	+450 +1'6"	+450 +1'6"
V Bucket width	mm ft in	3,200 125"	3,200 125"	3,200 125"	3,400 133"	3,230 127"	3,230 127"	3,000 118"	3,230 127"	3,200 125"	0 +0'0"	0 +0'0"	0 +0'0"	0 +0'0"	0 +0'0"	0 +0'0"	0 +0'0"	0 +0'0"	0 +0'0"
a ₁ Outer clearance circle (diameter)	mm ft in	14,860 48'9"	14,900 48'11"	14,940 49'0"	15,160 49'9"	14,990 49'2"	15,030 49'4"	14,850 48'9"	15,040 49'4"	15,150 49'8"	+390 +1'3"	+390 +1'3"	+390 +1'3"	+390 +1'3"	+390 +1'3"	+390 +1'3"	+390 +1'3"	+390 +1'3"	+390 +1'3"
Operating weight without load	kg lb	25,160 55,480	25,290 55,760	25,440 56,100	25,890 57,090	23,960 52,840	24,260 53,490	24,270 53,510	25,060 55,260	24,470 53,960	+410 +900	+410 +900	+410 +900	+410 +900	+410 +900	+410 +900	+410 +900	+410 +900	+410 +900

(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 4.0 m³ bucket carries 4.2 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	4.0	5.2	~ 4.4	~ 5.8
			~ 1.5	~ 2,530	4.4	5.8	~ 4.8	~ 6.3
Sand/Gravel	~ 105		~ 1.6	~ 2,698	4.0	5.2	~ 4.2	~ 5.5
			~ 1.5	~ 2,530	4.4	5.8	~ 4.6	~ 6.0
Aggregate	~ 100		~ 1.8	~ 3,035	4.4	5.8	~ 4.4	~ 5.8
			~ 1.7	~ 2,867	4.8	6.3	~ 4.8	~ 6.3
			~ 1.5	~ 2,530	5.2	6.8	~ 5.2	~ 6.8
Rock	≤100		~ 1.7	~ 2,867	3.5	4.6	~ 3.5	~ 4.6

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)
Standard boom	Rehandling*	4.4 m ³ (5.8 yd ³)					4.6 (6.0)	4.4 (5.8)
		4.8 m ³ (6.3 yd ³)					5.0 (6.5)	4.8 (6.3)
		5.2 m ³ (6.8 yd ³)					5.5 (7.2)	5.2 (6.8)
	General purpose	4.0 m ³ (5.2 yd ³)					4.4 (5.8)	4.0 (5.2)
Long boom	Rehandling*	4.4 m ³ (5.8 yd ³)					4.6 (6.0)	4.4 (5.8)
		4.8 m ³ (6.3 yd ³)					5.0 (6.5)	4.8 (6.3)
		5.2 m ³ (6.8 yd ³)					5.5 (7.2)	5.2 (6.8)
	General purpose	3.7 m ³ (4.8 yd ³)					4.1 (5.4)	3.7 (4.8)
Light material	Rock	3.5 m ³ (4.6 yd ³)					3.5 (4.6)	3.3 (4.3)
		6.8 m ³ (8.9 yd ³)					6.8 (8.9)	
		6.8 m ³ (8.9 yd ³)					6.8 (8.9)	
	Light material	6.8 m ³ (8.9 yd ³)					6.8 (8.9)	

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	0	0	0	0	+30	+1.2	+10	+0.4	0	0	+30	+1.2
Tipping load, full turn	kg	lb	+410	+900	+530	+1,170	+860	+1,900	+370	+810	+460	+1,020	+560	+1,230
Operating weight	kg	lb	+460	+1,020	+710	+1,570	+1,100	+2,430	+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
Sign, 50 km/h

OPTIONAL EQUIPMENT
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