

Volvo Wheel Loaders 12.7-15.5 t/28,000-34,170 lb 170 hp

# L70H

Volvo Construction Equipment

# L70H

Leave the heavy-duty work for the L70H, designed to do more, be more comfortable and help you increase your productivity.



# Designed to do more

Hard work has never felt so easy. H-Series wheel loaders are built with an industryleading, strong frame, which, combined with the ideally-matched genuine Volvo drivetrain, achieves long-lasting performance. And with the help of a range of smart apps you can boost the efficiency of your operation from the comfort of the cab.

#### Loaded with versatility



- Torque Parallel linkage
- Volvo attachment bracket
- Range of purpose-built attachments
- Rehandling bucket
- 3rd and 4th hydraulic functions

# (E)(E)

#### Keep it moving

- Quick hydraulic oil fill thanks to new mounted nipple
- Improved cooling capacity
- Strong frame and central hinge
- Standard delayed engine shutdown
- Optional external axle coolingn
- Optional Load Assist Tire Pressure monitoring

# R

#### Safety as standard

- Anti-slip steps and strategically placed handrails
- Orange three-point seatbelt
- Redesigned side mirrors
- Rear-view camera



#### Strong and stable

- Optimized loading unit weight, heavyduty counterweight for greater stability
- Standard electro-servo controls
- Auto Bucket leveling function
- Lifetime Frame warranty



#### Increased productivity

- Optional lock-up converter
- Rimpull control
- Smart Control
- Smooth Control
- Eco pedal
- Load Assist On-Board Weighing hardware- Standard
- Load Assist Operator Coaching Standard



#### **Greater access**

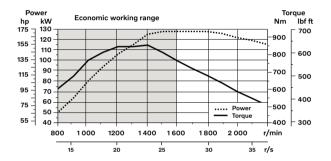
- Cooler installation slides out for easier cleaning
- Repositioned fill spouts for transmission and engine oil
- Ground-level access to service points
- Electronically-operated engine hood

### Volvo L70H in detail

#### Engine

6-cylinder, 6 liter inline turbocharged diesel engine with an advanced fuel injection system with the common rail. Fuel is distributed under high pressure from a high-pressure accumulator, the rail. One belt driven high pressure pump deliver the fuel to the rail and then further on via high-pressure pipes to the electronically operated fuel injectors. Engine meets Tier  $4f/\,EU$  Stage V emission legislation.

Engine	Volvo	D6J
Max. power at	r/min (r/s)	1,500 - 1,800 (25-30)
ISO 14396 gross	kW (hp)	127 (170)
ISO 9249, SAE J1349 net	kW (hp)	127 (170)
Max. torque at	r/min (r/s)	1,400 (23.3)
ISO 14396 gross	Nm (ft lbf)	850 (627)
ISO 9249, SAE J1349 net	Nm (ft lbf)	850 (627)
Economic working range	r/min (r/s)	800 - 1,600 (13.3 - 26.7)
Displacement	l (in³)	5.7 (348)



#### Electrical 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, etc.

Batteries	V	2 x 12
Battery capacity	Ah	2 x 110
Cold cranking capacity, approx	Α	1,000
Alternator rating	W/A	3479/130
Starter motor output	kW	5.5

#### Brake system

Service brake: Volvo dual-circuit system with outboard mounted, hydraulically operated, fully sealed and circulating oil cooled wet disc brakes. Four operator selectable transmission disengagement settings while braking.

Parking brake: Dry disc brake mounted on the transmission output shaft. Applied by spring force, electro-hydraulically released with a switch on the instrument panel.

**Secondary brake:** Dual brake circuits with rechargeable accumulators. **Standard:** The brake system complies with the requirements of ISO 3450, 71/320/EEC

Number of brake discs per wheel		- 1
Accumulators	I (gal) 2 x 0.5+1 x (2 x 0.13 + 1 x 0	1.0 .26)
Accumulators for parking brake	I (gal) 1 x 7 (1 x 0.2	

#### ift Arm System

Torque parallel linkage (TP-linkage) with high breakout torque and parallel lift-arm action.

Lift cylinders		2
Cylinder bore	mm (in)	110 (4.3)
Piston rod diameter	mm (in)	70 (2.8)
Stroke	mm (in)	756 (29.8)
Tilt cylinder		1
Cylinder bore	mm (in)	160 (6.3)
Piston rod diameter	mm (in)	90 (3.5)
Stroke	mm (in)	432 (17.1)

#### Steering System

**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)	70 (2.8)
Rod diameter	mm (in)	45 (1.8)
Stroke	mm (in)	386 (15.2)
Working pressure	MPa (bar)	21 (210)
Maximum flow	l/min (gal/min)	60 (15.9)
Maximum articulation	±°	40

#### 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	O 6396	
L <sub>pA</sub>	dB	68
External sound level according to ISO 6395	i	
$L_{WA}$	dB	105

#### Service Refill

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

Fuel tank	l (gal)	222 (58.6)
DEF/AdBlue® tank	l (gal)	20 (5.3)
Engine coolant	l (gal)	30 (7.9)
Hydraulic oil tank	l (gal)	90 (23.8)
Transmission oil (non lock-up)	l (gal)	21 (5.5)
Transmission oil (lock-up)	l (gal)	22 (5.8)
Engine oil	l (gal)	20 (5.2)
Axle oil front	l (gal)	35 (9.2)
Axle oil rear	l (gal)	27 (7.1)

#### Hydraulic system

Closed center load sensing hydraulic system with non pressurised hydraulic tank and pilot operated control valves.

System supply: Variable displacement axial piston pump supply the hydraulic system.

Valves: The central valve distributes pressure and flow out to the cooling fan, steering, brake, pilot and hydraulic system. Steering system gets priority over others.

Lift function: The valve has four positions; raise, hold, lower and float position. Automatic boom kickout position can be set to any position between maximum reach and full lifting height.

Tilt function: The valve has three functions; rollback, hold and dump. Automatic tilt out/tilt in 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 2

MPa (bar) 26 (260) for steering-, brake-, pilot- and working hydraulic system

Flow	l/min (gal/min)	154 (40.7)
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)	21 (210)
Flow	l/min (gal/min)	33 (8.7)
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	5.5
Tilt	s	2.1
Lower, empty	s	2.9
Total cycle time	s	10.5

#### 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. Transmission: Volvo Automatic Power Shift (APS) gear shifting system with fully automatic shifting 1-4 and mode selector with 4 different gear shifting programs, including AUTO mode. Also equipped with Rimpull control to avoid wheel spin and optimize bucket filling.

Axles: Volvo fully floating axle shafts with planetary hub reductions and cast steel axle housing. Fixed front axle and oscillating rear axle. 100% differential lock on the front axle.

Transmission	Volvo	HTE 125C Non Lock-up/ HTE 125 Lock-up
Torque multiplication, stall ratio		2.5:1 Non Lock- up / 2.59:1 Lock-up
Maximum speed		
1st gear	km/h (mi/h)	Converter 7.5 / Lock-up 7.5 (Converter 4.6 / Lock-up 4.6)
2nd gear	km/h (mi/h)	Converter 15 / Lock-up 15 (Converter 9.3 / Lock-up 9.3)
3rd gear	km/h (mi/h)	Converter 29 / Lock-up 30 (Converter 18 / Lock-up 18.6)
4th gear	km/h (mi/h)	Converter 46 / Lock-up 50 (Converter 28.6 / Lock-up 31.1)
4th gear: Shown in speedometer and limited	by ECU	
Measured with tires		20.5R25
Front axle/rear axle		AWB 25/AWB 20
Rear axle oscillation	±°	13
Ground clearance	mm (in)	470 (18.5)
at oscillation	0	13



## **Specifications**

Tires 20.5 R25 L3							
			L7	он			
		Standar	d boom	Long	boom		
mm	ft in	6,080	19'11"	6,560	21'6"		
mm	ft in	3,000	9'10"	3,000	9'10"		
mm	ft in	450	1'6"	450	1'6"		
mm	ft in	3,280	10'9"	3,280	10'9"		
mm	ft in	2,134	7'0"	2,134	7'0"		
mm	ft in	1,905	6'3"	1,905	6'3"		
mm	ft in	3,580	11'9"	4,050	13'3"		
mm	ft in	3,870	12'8"	4,350	14'3"		
•	•	5	6	5	52		
•	•	4	46		45		
•	•	43		44			
•	•	48		49			
•	•	6	8	73			
mm	ft in	106	0'4"	112	0'4"		
mm	ft in	450	1'6"	500	1'8"		
mm	ft in	1,930	6'4"	1,930	6'4"		
mm	ft in	2,460	8'1"	2,460	8'1"		
mm	ft in	3,160	10'4"	3,500	11'6"		
mm	ft in	5,350	17'7"	5,350	17'7"		
mm	ft in	2,890	9'6"	2,890	9'6"		
±	•	4	0	4	0		
	mm	mm ft in	mm ft in 6,080 mm ft in 3,000 mm ft in 450 mm ft in 3,280 mm ft in 2,134 mm ft in 1,905 mm ft in 3,580 mm ft in 3,870  ° 4  ° 4  ° 4  ° 4  mm ft in 106 mm ft in 106 mm ft in 1,930 mm ft in 1,930 mm ft in 2,460 mm ft in 3,160 mm ft in 5,350 mm ft in 2,890	Standard boom           mm         ft in         6,080         19'11"           mm         ft in         3,000         9'10"           mm         ft in         450         1'6"           mm         ft in         3,280         10'9"           mm         ft in         2,134         7'0"           mm         ft in         1,905         6'3"           mm         ft in         3,870         12'8"           mm         ft in         3,870         12'8"           46         43         48           68         48           mm         ft in         106         0'4"           mm         ft in         1,930         6'4"           mm         ft in         1,930         6'4"           mm         ft in         2,460         8'1"           mm         ft in         3,160         10'4"           mm         ft in         5,350         17'7"           mm         ft in         2,890         9'6"	mm         ft in         6,080         19'11"         6,560           mm         ft in         3,000         9'10"         3,000           mm         ft in         450         1'6"         450           mm         ft in         3,280         10'9"         3,280           mm         ft in         2,134         7'0"         2,134           mm         ft in         1,905         6'3"         1,905           mm         ft in         3,580         11'9"         4,050           mm         ft in         3,870         12'8"         4,350           °         46         4           °         48         4           °         48         4           °         48         4           °         450         1'6"         500           mm         ft in         1,930         6'4"         1,930           mm         ft in         2,460         8'1"         2,460           mm         ft in         3,160         10'4"         3,500           mm         ft in         2,890         9'6"         2,890		

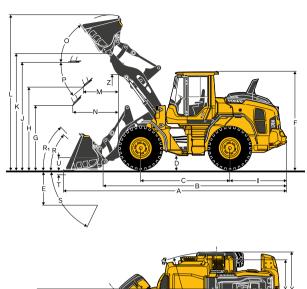
<sup>\*</sup> Carry position SAE

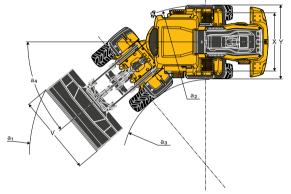
Calculated with additional protective guarding

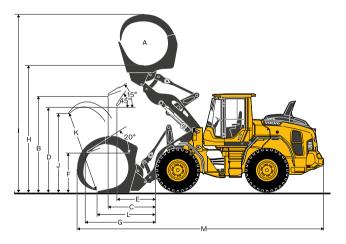
Where applicable, specifications and dimensions are according to ISO 7131, SAE J732, ISO 7546, SAE J742, ISO 14397, SAE J818

Tires: 20.5R25 L3					
		L70H			
SAE-Load	kg	lb	3,990	8,796	
Operating weight without load*	kg	lb	14,585	32,154	
Grapple sales code			WLA8	30153	
Α	m²	yd²	1.5	1.8	
В	mm	ft in	3,380	11'1"	
С	mm	ft in	1,594	5'3"	
D	mm	ft in	2,870	9'5"	
E	mm	ft in	1,265	4'2"	
F	mm	ft in	1,502	4'11"	
G	mm	ft in	2,442	8'0"	
Н	mm	ft in	4,378	14'4"	
1	mm	ft in	6,027	19'9"	
J	mm	ft in	2,141	7'0"	
К	mm	ft in	2,365	7'9"	
L	mm	ft in	1,800	5'11"	
M	mm	ft in	7,996	26'3"	

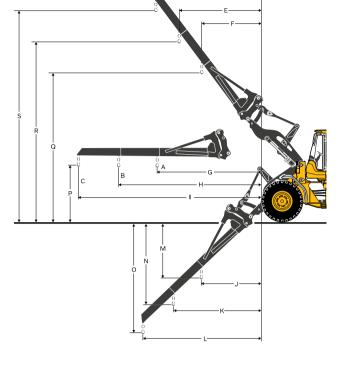
<sup>\*</sup> Calculated with additional protective guarding







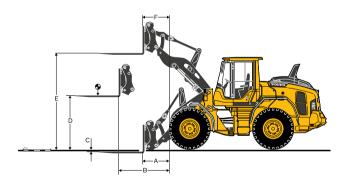
			L7	0Н
Material handling arm sales code				007
A*	kg	lb	2,150	4,740
B*	kg	lb	1,710	3,770
C*	kg	lb	1,400	3,086
Static tipping load, straight	kg	lb	3,583	7,899
35deg. Turn	kg	lb	3,222	7,103
at full turn	kg	lb	3,116	6,870
D	mm	ft in	2,716	8'11"
E	mm	ft in	2,106	6'11"
F	mm	ft in	1,549	5'1"
G	mm	ft in	3,323	10'11"
Н	mm	ft in	4,358	14'4"
I	mm	ft in	5,492	18'0"
J	mm	ft in	1,269	4'2"
К	mm	ft in	1,744	5'9"
L	mm	ft in	2,266	7'5"
M	mm	ft in	2,176	7'2"
N	mm	ft in	3,095	10'2"
0	mm	ft in	4,102	13'5"
Р	mm	ft in	1,523	5'0"
Q	mm	ft in	5,302	17'5"
R	mm	ft in	6,174	20'3"
S	mm	ft in	7,129	23'5"
Operating weight without load	kg	lb	13,451	29,654



<sup>\*\*</sup>Calculated with additional protective guarding

Tires. 20.5R25 L5						
	L70H					
Fork frame sales code			83768			
Fork tines sales code (R/L)			80042	/80044		
Static tipping load, straight	kg	lb	7,576	16,702		
35deg. Turn	kg	lb	6,809	15,011		
at full turn	kg	lb	6,584	14,515		
at load center distance*	mm	ft in	600	2'0"		
A	mm	ft in	841	2'9"		
В	mm	ft in	1,616	5'4"		
С	mm	ft in	-52	-1'10"		
D	mm	ft in	1,859	6'1"		
E	mm	ft in	3,736	12'3"		
F	mm	ft in	767	2'6"		
Operating weight without load	kg	lb	13,531	29,831		

<sup>\*</sup> Firm and level ground



<sup>\*</sup> Op. load at full turn + tipping position Tipping loads calculated for max. arm length

<sup>\*\*</sup>Calculated with additional protective guarding

## **Specifications**

				REHANDLING (1)			GENERAL PURPOSE							GRADING		LIGHT MATERIAL			RIAL	_	NG M <sup>(3)</sup>		
L70H Tires 20.5 R25 L3				P		8		PÉ		E.		PÉ		P.F	A	86		86					
		WLA54	427161	_		WLA	36401					WLAS	36407			_	80562	WLAS	30634	WLAS	36418		
				(3.5 ST	' m³ yd³) E P OE	(3.5 ST	m³ yd³) E H DE	(2.8 ST		(3.0 ST	m³ yd³) E H DE	(3.1 ST	m³ yd³) E P DE	2.4 (3.1 STI BC	yd³) E H	(2.9 GR	m³ yd³) B H DE	(4.4 LN	ŀm³ ·yd³) ⁄IH OE	6.4 (8.4 LN BC	yd³) 1 H	2.4 (3.1 STI BC	yd³) E P
Volu	me, heaped ISO/SAE	m³	yd³	2.7	3.5	2.7	3.5	2.3	3.0	2.0	2.6	2.4	3.1	2.4	3.1	2.2	2.9	3.4	4.4	6.4	8.4	-	-
Volu	me at 110% fill factor	m³	yd³	3.0	3.9	3.0	3.9	2.5	3.3	2.2	2.9	2.6	3.5	2.6	3.5	2.4	3.2	3.7	4.9	7.0	9.2	-	-
Stati	c tipping load, straight	kg	lb	10,340	22,800	9,740	21,480	9,430	20,790	9,690	21,360	10,020	22,090	9,430	20,790	7,710	17,000	9,020	19,880	8,580	18,920	-1,850	-4,070
at 3	5° turn	kg	lb	9,230	20,340	8,660	19,100	8,420	18,570	8,670	19,110	8,970	19,790	8,420	18,560	6,850	15,110	8,030	17,710	7,570	16,690	-1,690	-3,740
at fu	ll turn	kg	lb	8,900	19,620	8,340	18,390	8,120	17,910	8,370	18,450	8,670	19,110	8,120	17,910	6,600	14,550	7,740	17,070	7,270	16,030	-1,660	-3,650
Brea	kout force	kN	lbf		20,280																		
Α	Overall length	mm		,	24'8"	,		,		,		,		,		,		,		,			
E	Digging depth, max dump (S)	mm	ft in		3'11"													,	4'10"	1,970	6'6"	+20	+0'1"
H (2)	Dump clearance	mm	ft in	2,730	9'0"	2,660	8'9"	2,750	9'0"	2,710	8'11"	2,800	9'2"	2,730	8'11"	2,350	7'8"	2,520	8'3"	2,140	7'0"	+490	,+1'7"
L	Overall operating height	mm	ft in	5,290	17'4"	5,360	17'7"	5,160	16' 11"	5,100	16'9"	5,120	16' 10"	5,190	17'0"	4,710	15'6"	5,440	17' 10"	5,780	19'0"	+470	+1'7"
M (2)	Dump reach	mm	ft in	1,140	3'9"	1,220	4'0"	1,140	3'9"	1,180	3'10"	1,080	3'6"	1,160	3'10"	1,350	4'5"	1,340	4'5"	1,730	5'8"	-20	-0'1"
N <sup>(2)</sup>	Reach at 45° discharge, pos. G	mm	ft in	1,630	5'4"	1,670	5'6"	1,650	5'5"	1,660	5'5"	1,610	5'4"	1,660	5'5"	1,570	5'2"	1,680	5'6"	1,730	5'8"	+400	+1'4"
V	Bucket width	mm	in	2,750	108"	2,750	108"	2,650	104"	2,650	104"	2,650	104"	2,650	104"	2,650	104"	2,650	104"	2,750	108"	0	+0"0"
a <sub>1</sub>	Outer clearance circle (diameter)	mm	ft in	12,070	39'7"	12,120	39'9"	11,950	39'3"	11,990	39'4"	11,910	39'1"	11,970	39'3"	12,480	41'0"	12,140	39'10"	12,600	41'4"	+540	+1'6"
Ope	rating weight without load	kg	lb	14,090	31,080	14,350	31,640	13,750	30,330	13,660	30,120	13,510	29,790	13,770	30,370	14,010	30,890	13,960	30,780	14,500	31,980	+260	560
(1) M	easured with additional count	terwei	aht.																				

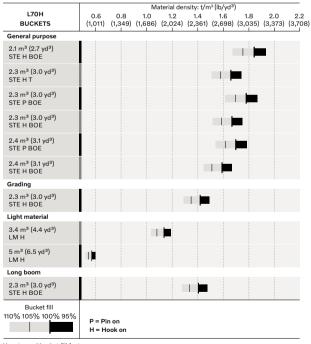
Note: This only applies to genuine Volvo attachments.

#### **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  $\sim 105\%.$  Density 1.55 t/m³ (2,610 lb/yd³). Result: The 2.6 m³ (3.4 yd³) bucket carries 2.7m³ (3.5 yd³). For optimum

stability always consult the bucket selection chart.

Material		Material	density	ISO/SAI volu		Actual volume			
	1111, %	t/m³	lb/yd³	m³	yd³	m³	yd³		
Earth/ Clay	~ 110	~ 1.45	~ 2,610 ~ 2,440 ~ 2,360	2.5 2.6 2.8	3.3 3.4 3.7	2.7 2.9 3.1	3.5 3.8 4.0		
Sand/ Gravel	~ 105	~ 1.55	~ 2,780 ~ 2,610 ~ 2,530	2.5 2.6 2.8	3.3 3.4 3.7	2.6 2.7 2.9	3.4 3.5 3.7		
Aggre- gate	~ 100		~ 2,950 ~ 2,780 ~ 2,700	2.5 2.6 2.8	3.3 3.4	2.5 2.6 2.8	3.3 3.4 3.7		
Rock	≤100	~ 1.80	~ 3,030	2.2	2.9	2.2	2.9		



					Standa	Long boom					
Tires 20.5 R25 L3			17.5	R25 L3	20.5 R	25 L2 *	600/65	R25 L3	600/65 R25 L3		
Width over tires	mm	in	-130	-5.1	+10	+0.4	+100	+4	+100	+4.0	
Ground clearance	mm	in	-60	-2.4	-10	-0.4	-30	-1.2	-20	-0.8	
Tipping load, full turn	kg	lb	-270	-610	+50	+100	-60	-130	-30	-70	
Operating weight	kg	lb	-480	-1,060	+90	+200	+10	+20	+10	+20	

<sup>\*</sup> Snow tires

<sup>(2)</sup> Measured to the tip of the bucket teeth or bolt-on edge. Dump height to bucket edge measured at 45° dump angle.

### **Equipment**

#### STANDARD EQUIPMENT

#### Engine

Exhaust after-treatment system

3-stage air cleaner, pre-cleaner, primary and secondary filter

Indicator glass for coolant level

Preheating of induction air

Fuel pre-filter with water trap

Fuel filter

Crank case breather oil trap

Exhaust heat ventilation

#### Wheels and tires

20.5R25

#### Drivetrain

Automatic Power Shift

Fully automatic gear shifting, 1-4

PWM-controlled gear shifting

Forward and reverse switch by hydraulic lever console

Rimpull control

Indicator glass for transmission oil level

Differentials: Front, 100% hydraulic diff lock. Rear, conventional

#### Electrical system

24 V, pre-wired for optional accessories

Alternator 80A/3135W

Battery disconnect switch

Maintenance-free batteries

Battery box, steel

Fuel gauge

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)

Co Pilot available

Rearview camera in Co pilot

Max Boom height

#### STANDARD EQUIPMENT

#### Contronic monitoring system

Contronic display

Fuel consumption

Diesel Exhaust Fluid/AdBlue consumption

Ambient temperature

Clock

Test function for warning and indicator lights

Brake tes

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

Crank case pressure Attachment lock open

Level warnings:

Fuel level

Diesel Exhaust Fluid/AdBlue 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 crank case pressure

High charge air temperature

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Engine shutdown to idle in case of malfunction indication:

High transmission oil temperature

Slip in transmission clutches

Key pad, background lit

Start interlock when gear is engaged

#### Hydraulic system

Main valve, double acting 2-spool with hydraulic pilots

Variable displacement axial piston pumps (2) for:

Working hydraulics, pilot hydraulics, steering system, brakes

Cooling fan, brakes

Hydraulic control levers

Mechanical 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, electrical-hydraulic

Brake wear indicators

Outboard mounted circulating oil cooled wet disc brakes on all four wheels

## **Equipment**

#### STANDARD EQUIPMENT

#### Cab

Volvo Copilot with Rearview camera standard

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 rearview mirrors

Dual exterior rearview mirrors

Sliding window, right side

Tinted safety glass

Operator's seat, Comfort ISRI, 2pt seat belt

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

Foot step, left side (toolbox lockable included)

ACC control panel, with Fahrenheit scale

Anchorage for Operator's manual

#### Service and maintenance

Engine oil remote drain and fill

Transmission oil remote drain and fill

Sliding hydraulic oil cooler and AC-condenser

Lubrication manifolds, ground accessible

Pressure test ports: transmission and hydraulic, quick connects

Service platforms with anti-slip surfaces

Quick-fit hydraulic oil fill

CareTrack

Telematics, 6 -year subscription

Toolbox, lockable

#### External equipment

Basic fenders, front and rear

Viscous cab mounts

Rubber engine and transmission mounts

Engine hood, electronically openable

Frame, joint lock

Vandalism lock for engine compartment

Lifting eyes

Tie down eyes

Tow hitch

Counterweight, pre-drilled for optional guards

#### **OPTIONAL EQUIPMENT**

#### Engine

Air pre-cleaner, cyclone type

Air pre-cleaner, oil-bath type

Air pre-cleaner, turbo type

Engine auto shut down

Engine block heater, 120V / 230V Fuel heater

Fuel fill strainer

Hand throttle control

Max. fan speed, hot climate Reversible cooling fan

#### Drivetrain

Lock-up torque converter

Rear axle with limited slip

Speed limiter, 20 km/h

Speed limiter, 30 km/h

Speed limiter, 40 km/h

#### OPTIONAL EQUIPMENT

#### Hydraulic system

Arctic kit: Attachment locking, pilot hoses and hydraulic oil

Attachment bracket, cast, visibility-optimized

Attachment bracket, side-tilting

Separate attachment locking, long boom

Separate attachment locking, standard boom

Single acting lifting function

Boom suspension system

HD load-sensing hydraulics, pump kit included

Hydraulic fluid, biodegradable, Volvo

Hydraulic fluid, fire resistant

Hydraulic fluid, for hot climate

Hydraulic, 2 functions Electro-servo, std/long boom

Hydraulic, 3 functions Electro-servo, std/long boom

Hydraulic, 4 functions Electro-servo, std/long boom

Single lever control, 2 funct Electro-servo, std/long boom

Single lever control, 3 funct Electro-servo, std/long boom

Single lever control, 4 funct Electro-servo, std/long boom

#### Brake system

Parking brake alarm, audible

Stainless steel, brake lines

Axle oil cooler

#### Cab

Asbestos dust protection filter

Automatic Climate Control, ACC

Automatic Climate Control, ACC, corrosion protection condenser

Cab air pre-cleaner, cyclone type

Carbon filter - cab

Remote door opener

Lunch box holder Operator's seat, Comfort ISRI, 3pt seat belt

Operator's seat, Premium Comfort ISRI

Operator's seat, Premium Comfort ISRI 3-point seat belt

Armrest, operator's seat, ISRI, left only

Safety belt, 3" (75mm) width

Safety belt warning

Radio installation kit including 12 volt outlet, left-side

Radio installation kit including 12 volt outlet, right-side

Radio with AUX, Bluetooth and USB connection

DAB Radio

Subwoofer

Forward view mirror

Rear view mirrors, el.adjusted and heated

Rear view mirrors, long arm right

Rear view mirrors, el.adjusted and heated, long arm right

Steering wheel knob

Sun blinds, rear windows

Sun blinds, side windows

Timer cab heating

Universal door/ignition key

Window, sliding, door

Cab, Hot applications. Roof, steel

Outside steel protection cab

Rear view mirrors long arm, cab

Reinforced windshield, flat

#### Service and maintenance

Automatic lubrication system

Automatic lubrication system for long boom

Oil sampling valve

Refill pump for automatic lubrication system

Tool kit

Wheel nut wrench kit

#### OPTIONAL EQUIPMENT

#### Electrical

Battery disconnect switch, additional in cab

Anti-theft device

Emergency stop

License plate holder, lighting

Reduced function working lights when reverse gear activated

Side marker lamps

Forward camera, colour

Rear view mirrors, long arm, right side

Rearview mirrors, adjustable, el. heated

Reverse alarm

Reverse lights

Reversing warning light

Reverse warning light, strobe lightning

Warning beacon (flasher), LED automatic

Warning beacon (flasher), LED

Seatbelt indicator, external

Working lights, attachments, 1 LED

Warning beacon LED

Warning beacon LED automatic

Halogen Economy package

Halogen Feature package

Halogen Power package

Headlights, assymetric left, halogen

Working lights, attachments, halogen

LED Economy package

LED Feature package

LED Power package

LED Intense package

Can Bus Interface

Delayed Engine Shutdown

#### Protective equipment

Anti-theft device

Bellyguard front

Bellyguard rear

Boom cylinder hose and tube guards

Cab roof, heavy duty

Center hinge and rear frame guard

Corrosion protection, painting of machine

Cover plate front frame, heavy-duty

Cover plate, under cab

Cover plates rear frame

Guards for front headlights

Grease nipple guards

Guards for radiator grill

Guards for tail lights, heavy-duty

Wheel/axle seal guards

Window guards, side and rear

Windshield guard

#### OPTIONAL EQUIPMENT

#### External equipment

Deleted front mudguards

Fire extinguisher

Bracket for fire extinguisher

Fire suppression system

Mudguards, full cover, rear for 80-series tires

Mudflap kit for mudguards, full cover for 80-series tires

Mudguards, full cover, rear and front/rear for 65-series tires

Mudflap kit for mudguards, full cover for 65-series tires

Footsteps front frame

Footsteps, right-hand side

Flexible rear step

Cab ladder, rubber suspended

#### Other equipment

CareTrack, GSM/Satellite

CE-marking

Comfort Drive Control (CDC) Electro-servo

Secondary steering

Counterweight, logging

Counterweight, signal painted, chevrons

Option for machines without dinitrol

Noise reduction kit, EU excluding decal

Sign, 50 km/h

Sign, slow moving vehicle

#### Tires and Rims

20.5R25

600/65R25

620/75R26 Agriculture application only

750/65R26 Agriculture application only

#### Attachments

Buckets:

Straight

Spade nose

High tipping

Light material

Grading

Wear parts:

Bolt-on edge

Bolt-on or weld-on bucket teeth

Segments

Log grapples

Fork equipment

Material handling arm

Snow blade Broom

Sand spreading bucket

### V O L V O