

**V O L V O**



Volvo Wheel Loaders 34-39 t / 74,957-85,980 lb 416 hp

**L260**

Volvo Construction Equipment

# L260

**A leader in its class, the L260 is primed for productivity in rehandling, quarrying and mining projects.**



## **Fast cycle times**

- Second generation load sensing hydraulics
- Automatic traction control
- Bucket leveling function
- Entirely Volvo powertrain
- Reduced steps between gears for faster acceleration and smooth operation.
- Z-Bar Linkage
- Volvo Attachments



## **Efficient and profitable operations**

- Powerful and efficient engine
- Second generation OptiShift
- Reverse By Braking
- Smart control with reduced fuel consumption
- Attachment optimization
- External dry P-Brake, which eliminates drag losses
- Auto bucket fill
- Compatible with HVO

# Make light work of big projects

Take productivity to the next level in large-scale rehandling, quarrying and mining projects thanks to the perfect combination of power, performance and intelligent solutions. Designed to deliver faster cycle times, maximum payload and unrivalled operator comfort, the L260 has Volvo quality running throughout every detail – delivering durability and safety you can count on. Combine that with a range of Volvo smart solutions including Load Assist, On-Board Weighing and Load Ticket, and the L260 is primed to deliver outstanding results.

## The operator's choice



- Interactive, integrated Volvo Co-Pilot display
- Dynamic instrument cluster
- Comfort Drive Control (CDC)
- Customizable operator settings

## A new level in cab comfort



- Most comfortable and quietest cab on the market
- Enhanced storage options
- New armrest, new cupholder and USB chargers
- Extensive range of seats - including premium seats with heating and cooling functionality.

## Durable by design



- A durability leader in its class
- Outstanding uptime
- Volvo-renowned quality runs throughout every component
- Strong frame structure and robust axles, ideally matched to the Volvo powertrain
- Self-cleaning hydraulically driven cooling fan
- Outboard mounted brakes
- Front and rear axles are cooled by the oil circulation
- You demand a durable machine to withstand extreme work site conditions. Volvo assures it with the Lifetime Frame and Structure warranty.

## Industry leading serviceability



- Cab can be tilted to either a 30° or 70° angle
- Electronically operated engine hood
- Captive oil filters, captive fuel filters with electric pump
- Optional fast fuel fill
- Service light under the grille
- Brake wear indicators

## Ultimate performance across a range of segments



- Quarry / Aggregate
- Rehandling
- Block handling
- Tunneling
- Mining
- Slag handling
- Waste & Recycling
- And more...

## Loaders and beyond



- Load Assist with On Board Weighing
- Load Ticket
- Connected Map with Performance Indicator
- Operator Coaching
- CareTrack telematics system

## Safety inside and out



- Excellent in-cab visibility and field of vision
- High definition rear view camera integrated in the Volvo Co-Pilot display
- Volvo Smart View with 360°
- Collision Mitigation System
- Battery disconnect/service switch with lockout/tagout
- Radar detect system
- Orange handrails
- Remote door opening
- Enhanced LED lighting packages
- New service platform

## Fast cycle times

Achieve fast cycle times with second generation load sensing hydraulics.

The second generation load sensing hydraulics are designed to enhance the responsiveness of the hydraulic system and improve the lifting and lowering speed of the boom.

Boost productivity further with the bucket leveling function which automatically returns the bucket to level from both dump and curl positions, enhancing operator performance.

## Fuel efficiency, lower emissions

Do more with less fuel, thanks to the industry-renowned fuel efficiency of Volvo Wheel Loaders.

Contributing to the fuel-efficient performance is Smart Control, powerful engine, second generation OptiShift, attachment optimization and external dry P-Brake, which eliminates drag losses.

What's more, the renewable synthetic diesel fuel, HVO (Hydro-treated Vegetable Oils), has been approved for use in Volvo Construction Equipment diesel engines with the potential to reduce CO<sub>2</sub> emissions by up to 90%.



## Intuitive operator interface

Operators can stay in-the-know and focused on the task at hand thanks to all essential in-cab information conveniently displayed on just two screens.

The interactive, integrated Volvo Co-Pilot display offers easy control over essential functions such as media, camera settings, climate control and machine status.

This is combined with the dynamic instrument cluster, positioned in front of the steering wheel, which provides essential vehicle data at a glance.

## Durable by design

A durability leader in its class, Volvo Wheel Loaders deliver an outstanding uptime.

Volvo-renowned quality runs throughout every component, including a strong frame structure and robust axles, ideally matched to the Volvo powertrain.

Quality is synonymous with the Volvo brand, and has been central to the products we engineer and produce for more than 175 years; that is why we are passing that on to you through the Lifetime Frame and Structure Warranty.

The hydraulically driven cooling fan regulates component temperature and can be automatically reversed to permit self-cleaning of the cooling units.

For long service life, the brakes are outboard mounted and the front and rear axles are cooled by the oil circulation.

## Safety first

Excellent in-cab visibility and field of vision is complemented by a host of safety-enhancing features including high definition rear view camera integrated in the Volvo Co-Pilot display, Collision Mitigation System and radar detect system that provides visual and audible alerts when encountering unseen objects.

Orange handrails and steps improve visibility for operators and maintenance staff, while automatic door opening allows the door to be opened with the key or button.

## Ultimate performance across a range of applications

Get ready to achieve maximum results across a wide range of applications in the Volvo L260 thanks to a range of options and attachments which equip the machine to take on the unique challenges and requirements of your segment.

A comprehensive range of attachments designed to work in perfect harmony provide the ideal match of machine and attachment to succeed across applications working with rock bucket, side-dump bucket, general purpose bucket, slag handling, rehandling, light material buckets and more.



# Volvo L260 in detail

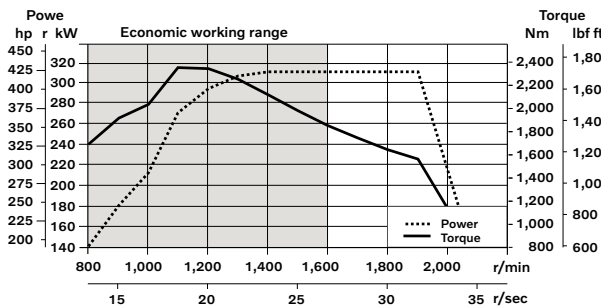
## Engine

V-ACT Tier 4 Final, 13-liter (3.43 gal), 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 application is transmitted electrically either 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           | rpm (rps)              | 1,400 - 1,900<br>(23.3 - 31.7) |
| ECE R120 net            | kW (hp)                | 310 (416)                      |
| ISO 9249, SAE J1349 net | kW (hp)                | 309 (414)                      |
| Max. torque at          | rpm (rps)              | 1,100 (18.3)                   |
| ECE R120 net            | Nm (lbf ft)            | 2,343 (1,728)                  |
| ISO 9249, SAE J1349 net | Nm (lbf ft)            | 2,328 (1,717)                  |
| Economic working range  | rpm (rps)              | 800 - 1,600<br>(13.3 - 26.7)   |
| Displacement            | lit (in <sup>3</sup> ) | 12.8 (781)                     |



## Drivetrain

**Torque converter:** Single-stage torque converter with lockup.

**Transmission:** The electronically controlled Volvo countershaft transmission features the Full Automatic Power Shift (FAPS) function, which offers fully automatic shifting in all four forward gears and from the second to the fourth gear in reverse. It is complemented by a mode selector with four gear-shifting programs. The Rimpull Control function helps prevent wheel spin and optimizes bucket filling. The single lever control and the Pulse Width Modulation (PWM) valves ensure effortless, fast, and smooth shifting, providing higher precision and reliability.

**Axles:** Volvo's fully floating drive shafts with planetary hub reductions and cast iron axle housing. The axles are now equipped with the innovative Automatic Traction Control (ATC) system, which enhances traction capability significantly. This system automatically engages a 100% differential lock, providing superior grip and stability. The ATC is standard on the front axle, ensuring optimal performance in challenging conditions, and is available as an optional feature for the rear axle, offering additional flexibility and control.

|                                       |                                         |
|---------------------------------------|-----------------------------------------|
| Transmission                          | HTL310                                  |
| Torque multiplication, stall ratio    | 2.02:1                                  |
| <b>Maximum speed, forward/reverse</b> |                                         |
| 1st gear                              | km/h (mph) 6.7 / 6.6<br>(4.2 / 4.1)     |
| 2nd gear                              | km/h (mph) 11.6 / 11.4<br>(7.2 / 7.1)   |
| 3rd gear                              | km/h (mph) 21.7 / 21.4<br>(13.5 / 13.3) |
| 4th gear                              | km/h (mph) 36.5 / 36.1<br>(22.7 / 22.4) |
| Measured with tires                   | 29.5R25 L4                              |
| Front axle/rear axle                  | AWB 50B / 41                            |
| Rear axle oscillation                 | ±° 15                                   |
| Ground clearance                      | mm (in) 540 (21.3)                      |
| 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 | 3,640 / 130 |
| Starter motor output           | kW  | 7           |

## Brake System

**Service brake:** Volvo dual-circuit system with nitrogen-charged accumulators. Outboard-mounted fully hydraulic operated, fully sealed oil circulation-cooled wet disc brakes. The operator can select automatic declutch of the transmission when braking by a switch on the instrument panel.

**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                                                 |
| Number of brake discs per wheel front      | 2                                                     |
| Number of brake discs per wheel            | 1                                                     |
| Accumulators                               | lit (gal.) 2 x 1.0 + 1 x 0.5<br>(2 x 0.26 + 1 x 0.13) |
| Accumulators for parking brake             | lit (gal.) 1 x 0.5<br>(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 suspension and retractable seatbelt. The seat is mounted on a bracket on the rear cab wall. The forces from the retractable seatbelt are absorbed by the seat rails.

**Standard:** 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<sub>2</sub>-eq

|                             |                                               |          |
|-----------------------------|-----------------------------------------------|----------|
| Ventilation                 | m <sup>3</sup> /min<br>(yd <sup>3</sup> /min) | 9 (11.8) |
| Heating capacity            | kW                                            | 16       |
| Air conditioning (optional) | kW                                            | 7.5      |

## Sound Level

|                                                                                     |    |     |
|-------------------------------------------------------------------------------------|----|-----|
| Sound level in cab according to ISO 6396 - L <sub>pA</sub>                          | dB | 70  |
| External sound level (ISO 6395 and EU Noise Directive 2000/14/EC) - L <sub>WA</sub> | dB | 109 |

## Hydraulic System

**System supply:** Two load-sensing axial piston pumps with variable displacement. The steering system always has priority.  
**Valves:** Double-acting 2-spool valve. The main valve is controlled by a 2-spool pilot valve.  
**Lift function:** The valve has three positions; raise, hold and lower 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)          | 29.0 ± 0.5<br>(290 ± 5) |
| Flow                                                                                        | l/min<br>(gal/min) | 252 (66.6)              |
| at                                                                                          | MPa (bar)          | 10 (100)                |
| engine speed                                                                                | rpm (rps)          | 1,900 (31.7)            |
| Working pressure maximum, pump 2 for steering-, brake-, pilot- and working hydraulic system | MPa (bar)          | 31.0 ± 0.5<br>(310 ± 5) |
| Flow                                                                                        | l/min<br>(gal/min) | 202 (53.4)              |
| at                                                                                          | MPa (bar)          | 10 (100)                |
| engine speed                                                                                | rpm (rps)          | 1,900 (31.7)            |
| Working pressure maximum, pump 3 for brake- and cooling fan system                          | MPa (bar)          | 25.0 ± 0.5<br>(250 ± 5) |
| Flow                                                                                        | l/min<br>(gal/min) | 83 (21.9)               |
| at                                                                                          | MPa (bar)          | 10 (100)                |
| engine speed                                                                                | rpm (rps)          | 1,900 (31.7)            |
| Pilot system, working pressure                                                              | MPa (bar)          | 3.2 - 4.0<br>(32 - 40)  |
| <b>Cycle times</b>                                                                          |                    |                         |
| Lift                                                                                        | s                  | 7.1                     |
| Tilt                                                                                        | s                  | 1.9                     |
| Lower, empty                                                                                | s                  | 4.1                     |
| Total cycle time                                                                            | s                  | 13.1                    |

## 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)            | 90 (3.54)  |
| Rod diameter         | mm (in)            | 60 (2.36)  |
| Stroke               | mm (in)            | 525 (20.7) |
| Working pressure     | MPa (bar)          | 26 (260)   |
| Maximum flow         | l/min<br>(gal/min) | 202 (53.4) |
| Maximum articulation | ±°                 | 37         |

## Service Refill

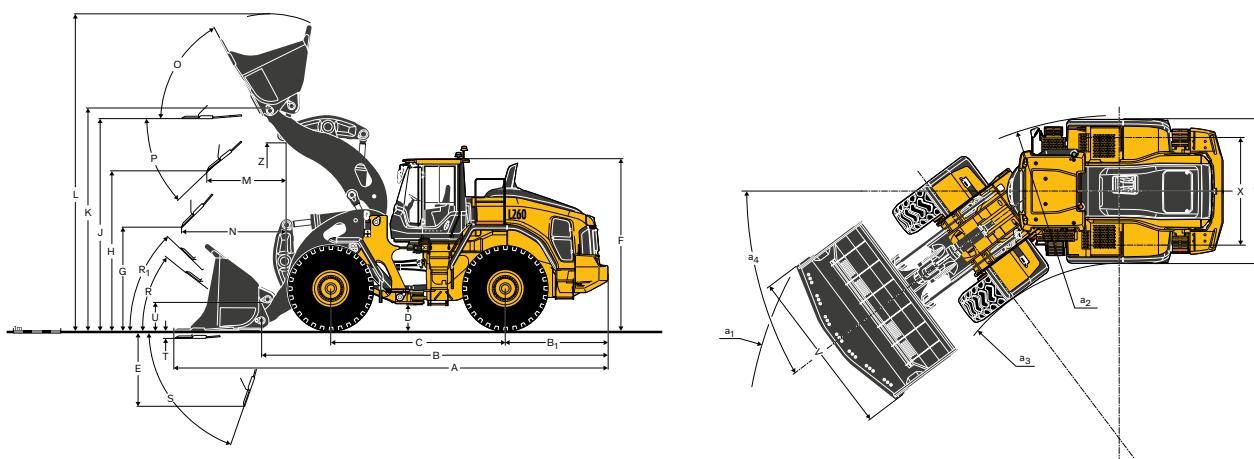
**Service accessibility:** Large, easy-to-open hood covering whole engine compartment, electrically operated. Fluid filters and component breather air filters promote long service intervals. A quick-fit adapter on the hydraulic tank provides faster hydraulic oil fill. Possibility to monitor, log and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

|                    |            |            |
|--------------------|------------|------------|
| Fuel tank          | lit (gal.) | 366 (96.7) |
| DEF/AdBlue® tank   | lit (gal.) | 31 (8.19)  |
| Engine coolant     | lit (gal.) | 55 (14.5)  |
| Hydraulic oil tank | lit (gal.) | 226 (59.7) |
| Transmission oil   | lit (gal.) | 48 (12.7)  |
| Engine oil         | lit (gal.) | 50 (13.2)  |
| Axle oil front     | lit (gal.) | 78 (20.6)  |
| Axle oil rear      | lit (gal.) | 80 (21.1)  |

## Lift Arm System

| Z-bar                             |         |            |
|-----------------------------------|---------|------------|
| Lift cylinders                    |         | 2          |
| Lift cylinder bore                | mm (in) | 190 (7.48) |
| Lift cylinder piston rod diameter | mm (in) | 110 (4.33) |
| Lift cylinder stroke              | mm (in) | 873 (34.4) |
| Tilt cylinder                     |         | 1          |
| Tilt cylinder bore                | mm (in) | 220 (8.66) |
| Tilt cylinder piston rod diameter | mm (in) | 120 (4.72) |
| Tilt cylinder stroke              | mm (in) | 570 (22.4) |

# Specifications



## DIMENSIONS

Tires : 875/65 R29 L3

|                  |                                              | Unit |       | L260          |        |           |        |
|------------------|----------------------------------------------|------|-------|---------------|--------|-----------|--------|
|                  |                                              |      |       | Standard boom |        | Long boom |        |
| B                | Overall length w/o bucket / attachm. bracket | mm   | ft in | 7,590         | 24'11" | 7,860     | 25'9"  |
| B <sub>1</sub>   | Rear overhang                                | mm   | ft in | 2,240         | 7'4"   | 2,240     | 7'4"   |
| C                | Wheel base                                   | mm   | ft in | 3,800         | 12'6"  | 3,800     | 12'6"  |
| D                | Ground clearance                             | mm   | ft in | 540           | 1'9"   | 530       | 1'9"   |
| F                | Height to top of ROPS                        | mm   | ft in | 3,730         | 12'3"  | 3,730     | 12'3"  |
| G                | Specific height for reach (N)                | mm   | ft in | 2,134         | 7'0"   | 2,133     | 7'0"   |
| J                | Lift height under level bucket               | mm   | ft in | 4,410         | 14'5"  | 4,760     | 15'7"  |
| K                | Height to hinge pin                          | mm   | ft in | 4,640         | 15'3"  | 5,000     | 16'5"  |
| O                | Rollback angle, max., fully raised           | °    |       | 62            |        | 57        |        |
| P <sub>max</sub> | Dump angle, max., fully raised               | °    |       | 39            |        | 42        |        |
| R                | Rollback angle, max., at ground level        | °    |       | 39            |        | 42        |        |
| R <sub>1</sub> * | Rollback angle at SAE carry position         | °    |       | 47            |        | 50        |        |
| S                | Digging angle, max.                          | °    |       | 70            |        | 77        |        |
| T                | Digging depth                                | mm   | in    | 67            | 2.64   | 137       | 5.39   |
| U                | Hinge pin height at carrying position        | mm   | ft in | 490           | 1'7"   | 580       | 1'11"  |
| X                | Track width                                  | mm   | ft in | 2,400         | 7'10"  | 2,400     | 7'10"  |
| Y                | Machine width over tire                      | mm   | ft in | 3,260         | 10'8"  | 3,260     | 10'8"  |
| Z                | Max. load-over height                        | mm   | ft in | 3,860         | 12'8"  | 4,250     | 13'11" |
| a <sub>2</sub>   | Turning radius outer circle                  | mm   | ft in | 7,310         | 24'0"  | 7,310     | 24'0"  |
| a <sub>3</sub>   | Turning radius inner circle                  | mm   | ft in | 4,050         | 13'3"  | 4,050     | 13'3"  |
| a <sub>4</sub>   | Max. articulation                            | ±°   |       | 37            |        | 37        |        |

\* Carry position SAE

Bucket: WLA86782 7.3 m<sup>3</sup> STE FF P BOE

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

**L260**

| Tires 875/65 R29 L3           |                                   |                 | REHANDLING <sup>(1)</sup>                                                         |                                                              |                                                                                   |                                                              |                                                                                   |                                                                   |                                                                                   |                                                                | GENERAL PURPOSE <sup>(2)</sup>                                                    |        |                                                                                    |        | ROCK <sup>(3)</sup>                                                                 |        |                                                                                     |        |                                                                                     |        | LIGHT MATERIAL <sup>(2)</sup>                                                       |        | LONG BOOM <sup>(1)</sup> |        |
|-------------------------------|-----------------------------------|-----------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|--------|--------------------------|--------|
|                               |                                   |                 |  |                                                              |  |                                                              |  |                                                                   |  |                                                                |  |        |  |        |  |        |  |        |  |        |  |        |                          |        |
|                               |                                   |                 | WLA86764                                                                          | WLA86765                                                     | WLA86782                                                                          | WLA87146                                                     | WLA87150                                                                          | WLA87533                                                          | WLA87532                                                                          | WLA87534                                                       | WLA54067748                                                                       | -      |                                                                                    |        |                                                                                     |        |                                                                                     |        |                                                                                     |        |                                                                                     |        |                          |        |
|                               |                                   |                 | 6.9 m <sup>3</sup><br>(9 yd <sup>3</sup> )<br>STE P<br>BOE                        | 7.3 m <sup>3</sup><br>(9.5 yd <sup>3</sup> )<br>STE P<br>BOE | 7.3 m <sup>3</sup><br>(9.5 yd <sup>3</sup> )<br>STE FF P<br>BOE                   | 6.4 m <sup>3</sup><br>(8.4 yd <sup>3</sup> )<br>STE P<br>BOE | 6.8 m <sup>3</sup><br>(8.9 yd <sup>3</sup> )<br>STE P T<br>SEG                    | 5.9 m <sup>3</sup><br>(7.7 yd <sup>3</sup> )<br>STE RO P<br>T SEG | 5.5 m <sup>3</sup><br>(7.2 yd <sup>3</sup> )<br>SPN P T<br>SEG                    | 6.4 m <sup>3</sup><br>(8.4 yd <sup>3</sup> )<br>SPN P T<br>SEG | 10.2 m <sup>3</sup><br>(13.3 yd <sup>3</sup> )<br>LM P BOE                        | -      |                                                                                    |        |                                                                                     |        |                                                                                     |        |                                                                                     |        |                                                                                     |        |                          |        |
| Volume, heaped ISO/SAE        | m <sup>3</sup>                    | yd <sup>3</sup> | 6.9                                                                               | 9.0                                                          | 7.3                                                                               | 9.5                                                          | 7.3                                                                               | 9.5                                                               | 6.4                                                                               | 8.4                                                            | 6.8                                                                               | 8.9    | 5.9                                                                                | 7.7    | 5.5                                                                                 | 7.2    | 6.4                                                                                 | 8.4    | 10.2                                                                                | 13.3   | -                                                                                   | -      |                          |        |
| Volume at 110% fill factor    | m <sup>3</sup>                    | yd <sup>3</sup> | 7.6                                                                               | 9.9                                                          | 8.0                                                                               | 10.5                                                         | 8.0                                                                               | 10.5                                                              | 7.0                                                                               | 9.2                                                            | 7.5                                                                               | 9.8    | 6.5                                                                                | 8.5    | 6.1                                                                                 | 7.9    | 7.0                                                                                 | 9.2    | 11.2                                                                                | 14.7   | -                                                                                   | -      |                          |        |
| Static tipping load, straight | kg                                | lb              | 28,870                                                                            | 63,660                                                       | 28,630                                                                            | 63,120                                                       | 28,890                                                                            | 63,700                                                            | 27,140                                                                            | 59,840                                                         | 26,790                                                                            | 59,060 | 27,690                                                                             | 61,060 | 27,290                                                                              | 60,170 | 26,760                                                                              | 59,010 | 25,270                                                                              | 55,710 | -3,480                                                                              | -7,670 |                          |        |
| at 35° turn                   | kg                                | lb              | 25,690                                                                            | 56,640                                                       | 25,440                                                                            | 56,090                                                       | 25,690                                                                            | 56,650                                                            | 24,160                                                                            | 53,270                                                         | 23,800                                                                            | 52,490 | 24,660                                                                             | 54,370 | 24,250                                                                              | 53,470 | 23,740                                                                              | 52,340 | 22,350                                                                              | 49,280 | -3,170                                                                              | -6,990 |                          |        |
| at full turn                  | kg                                | lb              | 25,320                                                                            | 55,840                                                       | 25,080                                                                            | 55,290                                                       | 25,330                                                                            | 55,850                                                            | 23,820                                                                            | 52,530                                                         | 23,460                                                                            | 51,740 | 24,310                                                                             | 53,610 | 23,900                                                                              | 52,710 | 23,400                                                                              | 51,590 | 22,020                                                                              | 48,550 | -3,140                                                                              | -6,920 |                          |        |
| Breakout force                | kN                                | lbf             | 290.3                                                                             | 65,280                                                       | 283.4                                                                             | 63,710                                                       | 284.2                                                                             | 63,900                                                            | 303.8                                                                             | 68,310                                                         | 300.0                                                                             | 67,450 | 301.4                                                                              | 67,780 | 262.9                                                                               | 59,110 | 244.4                                                                               | 54,960 | 228.5                                                                               | 51,370 | -25.3                                                                               | -5,690 |                          |        |
| A                             | Overall length                    | mm              | ft in                                                                             | 9,420                                                        | 30'11"                                                                            | 9,470                                                        | 31'1"                                                                             | 9,430                                                             | 30'11"                                                                            | 9,350                                                          | 30'8"                                                                             | 9,640  | 31'7"                                                                              | 9,620  | 31'7"                                                                               | 9,890  | 32'5"                                                                               | 10,050 | 33'0"                                                                               | 9,890  | 32'5"                                                                               | +320   | +1'1"                    |        |
| E                             | Digging depth, max dump (S)       | mm              | ft in                                                                             | 1,680                                                        | 5'6"                                                                              | 1,720                                                        | 5'8"                                                                              | 1,710                                                             | 5'7"                                                                              | 1,620                                                          | 5'4"                                                                              | 1,880  | 6'2"                                                                               | 1,850  | 6'1"                                                                                | 2,100  | 6'11"                                                                               | 2,240  | 7'4"                                                                                | 2,140  | 7'0"                                                                                | +100   | +0'4"                    |        |
| H <sup>(4)</sup>              | Dump clearance                    | mm              | ft in                                                                             | 3,260                                                        | 10'9"                                                                             | 3,230                                                        | 10'7"                                                                             | 3,260                                                             | 10'9"                                                                             | 3,300                                                          | 10'10"                                                                            | 3,110  | 10'3"                                                                              | 3,140  | 10'4"                                                                               | 2,970  | 9'9"                                                                                | 2,870  | 9'5"                                                                                | 3,060  | 10'1"                                                                               | +290   | +0'11"                   |        |
| L                             | Overall operating height          | mm              | ft in                                                                             | 6,610                                                        | 21'8"                                                                             | 6,650                                                        | 21'10"                                                                            | 6,640                                                             | 21'9"                                                                             | 6,450                                                          | 21'2"                                                                             | 6,480  | 21'3"                                                                              | 6,570  | 21'6"                                                                               | 6,490  | 21'4"                                                                               | 6,630  | 21'9"                                                                               | 6,850  | 22'6"                                                                               | +350   | +1'2"                    |        |
| M <sup>(4)</sup>              | Dump reach                        | mm              | ft in                                                                             | 1,650                                                        | 5'5"                                                                              | 1,680                                                        | 5'6"                                                                              | 1,710                                                             | 5'7"                                                                              | 1,610                                                          | 5'3"                                                                              | 1,800  | 5'11"                                                                              | 1,760  | 5'9"                                                                                | 1,970  | 6'6"                                                                                | 2,070  | 6'10"                                                                               | 2,150  | 7'1"                                                                                | -110   | -0'4"                    |        |
| N <sup>(4)</sup>              | Reach at 45° discharge, pos. G    | mm              | ft in                                                                             | 2,320                                                        | 7'7"                                                                              | 2,340                                                        | 7'8"                                                                              | 2,220                                                             | 7'3"                                                                              | 2,300                                                          | 7'6"                                                                              | 2,400  | 7'10"                                                                              | 2,370  | 7'9"                                                                                | 2,490  | 8'2"                                                                                | 2,540  | 8'4"                                                                                | 2,470  | 8'1"                                                                                | +260   | +0'10"                   |        |
| V                             | Bucket width                      | mm              | in                                                                                | 3,580                                                        | 140                                                                               | 3,650                                                        | 143                                                                               | 3,650                                                             | 143                                                                               | 3,580                                                          | 140                                                                               | 3,650  | 143                                                                                | 3,650  | 143                                                                                 | 3,650  | 143                                                                                 | 3,650  | 143                                                                                 | 3,700  | 145                                                                                 | 0      | 0                        |        |
| a <sub>1</sub>                | Outer clearance circle (diameter) | mm              | ft in                                                                             | 16,230                                                       | 53'3"                                                                             | 16,320                                                       | 53'7"                                                                             | 16,290                                                            | 53'5"                                                                             | 16,190                                                         | 53'2"                                                                             | 16,410 | 53'10"                                                                             | 16,410 | 53'10"                                                                              | 16,570 | 54'4"                                                                               | 16,660 | 54'8"                                                                               | 16,580 | 54'5"                                                                               | +220   | +0'9"                    |        |
| Operating weight without load |                                   |                 | kg                                                                                | lb                                                           | 35,260                                                                            | 77,750                                                       | 35,420                                                                            | 78,090                                                            | 35,230                                                                            | 77,680                                                         | 33,870                                                                            | 74,690 | 34,100                                                                             | 75,200 | 35,460                                                                              | 78,200 | 35,730                                                                              | 78,790 | 35,990                                                                              | 79,360 | 34,920                                                                              | 77,000 | +480                     | +1,060 |

<sup>(1)</sup> Measured with additional counterweight and 875/65 R29 L3 tires.

<sup>(2)</sup> Measured with 29.5 R25 L4 tires.

<sup>(3)</sup> Measured with 29.5 R25 L5 tires.

<sup>(4)</sup> 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.

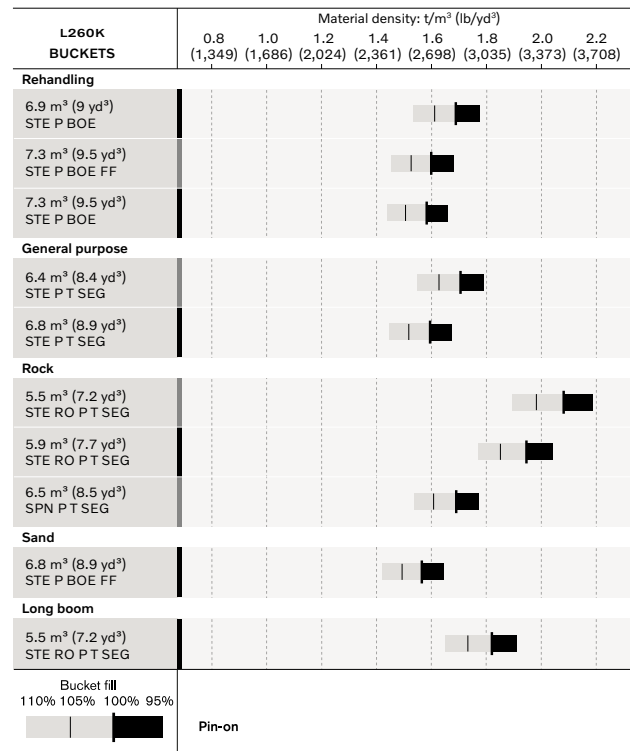
# Specifications

## Bucket Selection Chart

The volume handled varies with the bucket fill and is often greater than indicated by the bucket's ISO/SAE volume. The table shows optimum bucket choice with regard to the material density.

| Material | Bucket fill, % | Material density |                    |
|----------|----------------|------------------|--------------------|
|          |                | t/m <sup>3</sup> | lb/yd <sup>3</sup> |
| Earth    | 110 - 115      | 1.4 - 1.6        | 2,360 - 2,697      |
| Clay     | 110 - 120      | 1.4 - 1.6        | 2,360 - 2,697      |
| Sand     | 100 - 110      | 1.6 - 1.9        | 2,697 - 3,203      |
| Gravel   | 100 - 110      | 1.7 - 1.9        | 2,865 - 3,203      |
| Rock     | 75 - 100       | 1.5 - 1.9        | 2,528 - 3,203      |

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

## SUPPLEMENTAL OPERATING DATA

| Tires 875/65 R29 L3     | Unit |    | Standard boom |      |             |        |               |      | Long boom   |      |             |        |               |      |
|-------------------------|------|----|---------------|------|-------------|--------|---------------|------|-------------|------|-------------|--------|---------------|------|
|                         |      |    | 29.5 R25 L4   |      | 29.5 R25 L5 |        | 875/65 R29 L4 |      | 29.5 R25 L4 |      | 29.5 R25 L5 |        | 875/65 R29 L4 |      |
| Width over tires        | mm   | in | -90           | -3.5 | -50         | -2     | +10           | +0.4 | -90         | -3.5 | -50         | -2     | +10           | +0.4 |
| Ground clearance        | mm   | in | +20           | +0.8 | +20         | +0.8   | -30           | -1.2 | +20         | +0.8 | +20         | +0.8   | 0             | 0    |
| Tipping load, full turn | kg   | lb | -50           | -110 | +720        | +1,590 | -30           | -70  | -30         | -70  | +660        | +1,450 | +170          | +350 |
| Operating weight        | kg   | lb | -230          | -510 | +840        | +1,860 | +70           | +150 | -230        | -520 | +840        | +1,850 | +70           | +150 |



# Equipment

| STANDARD EQUIPMENT                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Engine</b>                                                                                                                                                                                                        |
| Exhaust after-treatment system                                                                                                                                                                                       |
| Two stage air cleaner, primary and secondary filter                                                                                                                                                                  |
| Indicator for coolant level                                                                                                                                                                                          |
| Preheating of induction air                                                                                                                                                                                          |
| Fuel pre-filter with water trap                                                                                                                                                                                      |
| Fuel filter                                                                                                                                                                                                          |
| Electric fuel prime pump                                                                                                                                                                                             |
| Crankcase breather oil trap                                                                                                                                                                                          |
| Exterior radiator air intake protection                                                                                                                                                                              |
| <b>Drivetrain</b>                                                                                                                                                                                                    |
| Automatic Power Shift                                                                                                                                                                                                |
| Fully automatic gearshifting, 1-4                                                                                                                                                                                    |
| PWM-controlled gearshifting                                                                                                                                                                                          |
| Forward and reverse switch by hydraulic lever console                                                                                                                                                                |
| Rimpull control                                                                                                                                                                                                      |
| Smart control                                                                                                                                                                                                        |
| Indicator glass for transmission oil level                                                                                                                                                                           |
| Differentials: Front, 100% diff lock with Automatic Traction Control.<br>Rear, conventional.                                                                                                                         |
| OptiShift transmission with Lock-up RBB                                                                                                                                                                              |
| Lock-up first gear                                                                                                                                                                                                   |
| <b>Electrical system</b>                                                                                                                                                                                             |
| 24V, pre-wired for optional accessories                                                                                                                                                                              |
| Alternator 24V/130A/3479W                                                                                                                                                                                            |
| Battery disconnect (service) switch                                                                                                                                                                                  |
| Electric horn                                                                                                                                                                                                        |
| Lighting:<br>Twin halogen front headlights with high and low beams<br>Parking lights<br>Double brake and tail lights<br>Turn signals with flashing hazard light function<br>Halogen work lights (2 front and 2 rear) |
| Dual LED reversing strobe lights                                                                                                                                                                                     |

| STANDARD EQUIPMENT                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Dynamic Instrument Cluster</b>                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 8-inch dynamic instrument cluster display                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Fuel consumption                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Diesel Exhaust Fluid/AdBlue consumption                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Ambient temperature                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Clock                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Warning and indicator lights:<br>Battery charging<br>Parking brake                                                                                                                                                                                                                                                                                                                                                                                              |
| Warning and display message:<br>Regeneration<br>Engine coolant temperature<br>Charge-air temperature<br>Engine oil temperature<br>Engine oil pressure<br>Transmission oil temperature<br>Transmission oil pressure<br>Hydraulic oil temperature<br>Brake pressure<br>Parking brake applied<br>Brake charging<br>Overspeed at direction change<br>Axle oil temperature<br>Steering pressure<br>Crankcase pressure<br>Attachment lock open<br>Safety Belt Warning |
| Level warnings:<br>Fuel level<br>Diesel Exhaust Fluid/AdBlue level<br>Engine oil level<br>Engine coolant level<br>Transmission oil level<br>Hydraulic oil level<br>Washer fluid level                                                                                                                                                                                                                                                                           |
| Climate control temperature and fan speed                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Speed indicator                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Engine revolutions per minute indicator                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Engine torque reduction in case of malfunction indication:<br>High engine coolant temperature<br>High engine oil temperature<br>Low engine oil pressure<br>High crankcase pressure<br>High charge-air temperature                                                                                                                                                                                                                                               |
| Engine shutdown to idle in case of malfunction indication:<br>High transmission oil temperature<br>Slip in transmission clutches                                                                                                                                                                                                                                                                                                                                |
| Start interlock when gear is engaged                                                                                                                                                                                                                                                                                                                                                                                                                            |

| STANDARD EQUIPMENT                                                |
|-------------------------------------------------------------------|
| <b>Integrated Volvo Co-Pilot</b>                                  |
| 12.8-inch High Definition vertical Co-Pilot display               |
| Machine integration                                               |
| Machine information                                               |
| Machine settings                                                  |
| Service information                                               |
| Service mode                                                      |
| Smart View with rear view camera                                  |
| Climate controls                                                  |
| Radio and media (with Bluetooth and USB connection)               |
| Load Assist portfolio                                             |
| Operator Coaching Start                                           |
| Toolbox applications                                              |
| Remote support                                                    |
| Help center (digital operator's manual)                           |
| <b>Hydraulic System</b>                                           |
| 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                                    |
| Secondary steering with automatic test function                   |
| 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                                              |
| <b>Brake system</b>                                               |
| Dual brake circuits                                               |
| Dual brake pedals                                                 |
| Secondary brake system                                            |
| Parking brake, electro-hydraulic                                  |
| Brake wear indicators                                             |

| STANDARD EQUIPMENT                                                     |
|------------------------------------------------------------------------|
| <b>Cab</b>                                                             |
| ROPS (ISO 3471), FOPS (ISO 3449)                                       |
| Harness Anchor Points                                                  |
| Single key kit door/start                                              |
| Acoustic inner lining                                                  |
| Cigarette lighter, 24V power outlet                                    |
| Lockable door                                                          |
| Cab heating with fresh air inlet and defroster                         |
| Fresh air inlet with two filters                                       |
| Automatic heat control                                                 |
| Floor mat                                                              |
| 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                            |
| <b>Service and Maintenance</b>                                         |
| Engine oil remote drain and fill                                       |
| Volvo High Performance oil filters with 1,000 hours service interval   |
| Transmission oil remote drain and fill                                 |
| Quick-fit transmission oil change                                      |
| Lubrication manifolds, ground accessible                               |
| Pressure check connections: transmission and hydraulic, quick-connects |
| Quick-fit hydraulic oil fill                                           |
| Service platform on the front frame                                    |
| Tool box, lockable                                                     |
| <b>External equipment</b>                                              |
| Orange hand rails                                                      |
| Fenders, front and rear                                                |
| Reflecting stickers (decals), machine contour and cab                  |
| 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                                      |
|---------------------------------------------------------|
| <b>Engine</b>                                           |
| Air pre-cleaner, cyclone type                           |
| Air pre-cleaner, oil-bath type                          |
| Air pre-cleaner, turbo type II                          |
| Air pre-cleaner, turbo type III                         |
| Engine auto shutdown                                    |
| Engine delayed shutdown                                 |
| Engine block heater 230V/110V                           |
| Fuel fill strainer                                      |
| Fuel heater                                             |
| Fuel filter, extra                                      |
| Hand throttle control                                   |
| Max. fan speed, hot climate                             |
| Radiator, corrosion-protected                           |
| Reversible cooling fan                                  |
| Reversible cooling fan and axle oil cooler              |
| <b>Drivetrain</b>                                       |
| Automatic Traction Control 100% diff lock, front & rear |
| Speed limiter                                           |
| Wheel/axle seal guards                                  |
| <b>Electrical system</b>                                |
| Anti-theft device                                       |
| Emergency stop                                          |
| Locking device, Tag out Lock out                        |
| License plate holder, lighting                          |
| 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                              |
| Seatbelt indicator, external                            |
| Shortened headlight support brackets                    |
| Side marker lamps                                       |
| 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                                     |
| Headlights, assymetric Left, LED                        |
| Headlights, assymetric Right, LED                       |
| Working lights, attachments, LED                        |
| Electrical distribution unit 24 volt                    |
| Parking brake alarm, audible for air susp seats         |
| Jump start connector, ISO-Type                          |
| Max Boom height                                         |
| Can Bus Interface                                       |

| OPTIONAL EQUIPMENT                           |
|----------------------------------------------|
| <b>Integrated Volvo Co-Pilot</b>             |
| Tire pressure monitoring system              |
| Handsfree telephone                          |
| Smart View                                   |
| Smart View with 360°                         |
| Smart View with radar detect system          |
| Forward camera                               |
| Dual forward cameras                         |
| Collision Mitigation System                  |
| Load Assist portfolio                        |
| Load Assist OBW                              |
| Load Assist Task Modes                       |
| Operator Coaching Advanced                   |
| Site services enabled                        |
| Site Operations                              |
| Connected Map                                |
| Load Ticket                                  |
| File Upload                                  |
| Performance indicators                       |
| Task Manager                                 |
| Media player                                 |
| <b>Hydraulic System</b>                      |
| Boom suspension system                       |
| Boom cylinder hose and tube guards           |
| Hydraulic fluid, biodegradable, Volvo        |
| Hydraulic fluid, fire-resistant              |
| Hydraulic fluid, for hot climate             |
| Mineral oil for cold climate                 |
| Hydraulic 3rd function                       |
| Single lever control, hydraulics 2 functions |
| Single lever control, hydraulics 3 functions |
| Auto bucket fill                             |
| <b>Brake system</b>                          |
| Oil cooler and filter front & rear axle      |

| OPTIONAL EQUIPMENT                                               |
|------------------------------------------------------------------|
| <b>Cab</b>                                                       |
| 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, Mechanical ISRI, 2pt seat belt                  |
| Operator's seat, Volvo Air Suspension, Heavy Duty, 2pt seat belt |
| Operator's seat, Volvo Air Suspension, 2pt seat belt             |
| Operator's seat, Volvo Air Suspension, 3pt seat belt             |
| Operator's seat, Comfort ISRI, 2pt seat belt                     |
| Operator's seat, Comfort ISRI, 3pt seat belt                     |
| Operator's seat, Premium ISRI, 2pt seat belt                     |
| Operator's seat, Premium ISRI, 3pt seat belt                     |
| 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 mirrors                                             |
| 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                                      |
| <b>Service and Maintenance</b>                                   |
| Automatic lubrication system                                     |
| Cleaner kit, with air blow gun                                   |
| 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                                         |

| OPTIONAL EQUIPMENT                                |
|---------------------------------------------------|
| <b>Wheel/Tires</b>                                |
| 29.5 R25                                          |
| 875/65 R29                                        |
| <b>Protective equipment</b>                       |
| Belly guard front                                 |
| Belly guard rear                                  |
| Belly guard rear, oil pan                         |
| Center hinge and rear frame guard                 |
| 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              |
| <b>External equipment</b>                         |
| Cab ladder, rubber-suspended                      |
| Handles on counterweight                          |
| Deleted front mudguards                           |
| Fire suppression system                           |
| Fire extinguisher                                 |
| Fire extinguisher , two pieces                    |
| Mudguards, full cover, front and rear             |
| Mudguards, full cover wideners and prot. Included |
| Long boom                                         |
| Tow hitch                                         |
| <b>Other equipment</b>                            |
| CE-marking                                        |
| Comfort Drive Control (CDC)                       |
| Counterweight, re-handling                        |
| Counterweight, signal painted, chevrons           |
| Sound decal, EU                                   |
| Sound decal, USA                                  |
| Noise reduction kit, exterior                     |
| Rock Loader package                               |
| Rehandler package                                 |
| Slag Handler package                              |
| <b>Attachments</b>                                |
| Buckets:                                          |
| Rock straight or spade nose                       |
| General purpose                                   |
| Rehandling                                        |
| Side dump                                         |
| Light material                                    |
| Wear parts:                                       |
| Bolt-on and weld-on bucket teeth                  |
| Segments                                          |
| Cutting edge in three sections, bolt-on           |

**V O L V O**