**HYDRAULIC SYSTEM**

Open centre hydraulic with highly efficient vane pumps allows precise control even at low rpm together with quick reactions thanks to the high capacity pumps.

Pump: Vane pump fitted a power take-off on the transmission. The oil system is supplied from a centralised hydraulic pump which is mounted in series with the steering pump.

Valve: Double-acting spool valve. The control valve is actuated by a 3-speed pilot valve.

**Electrical System**

- Two 24 V DC electrical systems
- Body control module, engine control unit (ECU), EGR control unit
- Instrument panel with symbols
- Microcontroller with display
- Instrument lighting
- Stop/tail combination, working lights, halogen
- Instrument panel with symbols
- Monitor: Pre-check function, warning & monitoring lights
- Steering system: supplied from a separate steering pump.

**Engine**

- 110 mm stroke
- 8 kW (27 500 Btu/h)
- Tilt cylinder
- 10 m³/min
- 91 dB (A)
- 160 mm Bore
- Forward and reverse switch
- Low-effort steering gives short work cycle times. Power assistance in the steering with power amplification.

**Selection**

- 35 r/s (2 100 r/min) and engine speed
- 10 MPa at
- Flow
- Relief pressure
- 35 r/s (2 100 r/min)
- 35 r/s (2 100 r/min)
- 10 MPa
- 35 r/s (2 100 r/min)
- 10 MPa
- 35 r/s (2 100 r/min)
- 10 MPa

**Emergency exit**

- 2
- Care Cab with easy entry and wide door opening. Lined with sound-absorbent material. Sound- and vibration-suppressing suspension. Good all round visibility, large glass areas. Gruen Luh end windows and large doors.

**Bale clamp**

- Drum rotator

**LIFT SYSTEM**

P7 linkage combines high breakout torque throughout the working range with readily parallel latching action. These features together with light lift height and long reach make the LIFT system equally good in a bucket loader as well as in work with attachments and material handling tasks.

**Engine**

- 110 mm stroke
- 8 kW (27 300 Btu/h)
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### SERVICE REFILL CAPACITIES

<table>
<thead>
<tr>
<th>Component</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil</td>
<td>3.5 l</td>
</tr>
<tr>
<td>Water</td>
<td>3.7 l</td>
</tr>
<tr>
<td>Diesel</td>
<td>405 l</td>
</tr>
</tbody>
</table>

### BRAKE SYSTEM

- Simply reliable system with few parts ensures high availability and safety.
- Stopping and interlacement of oil-circulated disc brakes give long service intervals.
- Parking brake: Enclosed wet multi-disc brake built into the transmission. Spring-loaded application. Electrically operated, release via a switch on the instrument panel.

### ELECTRICAL SYSTEM

- Control system: Monitoring with complete information on the status of the machine's various systems is standard. Electrical system with circuit board is well protected by housing. Prepared for monitoring of optional equipment.
- Central warning: Central warning long for the following functions: Engine oil pressure, engine coolant temperature, both battery, hydraulic oil pressure in transmission, transmission of temperature, pressure gauge, parking brake, shut down or use as standard.

### DRIVETRAIN

- Drivetrain and working hydraulics well-matched to each other.
- Dependable design. Acceleration boost, productivity. Volvo system-compatible design facilitates servicing.

### ENGINE

- Engine delivers high torque and quick response at low rpm even under full load. The machine can work at the engine speeds, which contribute in good fuel efficiency, low wear, lower noise and longer life.
- Engine is equipped in fire, direct-injected, intercooled 4-stroke diesel engine with wet replaceable cylinder liners.
- Air cleaning: three stages.

### ELECTRICAL SYSTEM

- Control and monitoring system with complete information on the status of the machine's various systems is standard. Electrical system with circuit board is well protected by housing. Prepared for monitoring of optional equipment.
- Central warning: Central warning long for the following functions: Engine oil pressure, engine coolant temperature, both battery, hydraulic oil pressure in transmission, transmission of temperature, pressure gauge, parking brake, shut down or use as standard.

### OPERATIONAL DATA & DIMENSIONS

- OPERATIONAL DATA & VOLUMES

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>11,17 m</td>
</tr>
<tr>
<td>Width</td>
<td>5,20 m</td>
</tr>
<tr>
<td>Height</td>
<td>3,76 m</td>
</tr>
</tbody>
</table>

- BUCKET SELECTION CHART

  The choice of bucket is determined by the density of the material and the bucket fill factor.
  For optimum stability always consult the bucket selection chart.
  The volume handled varies with the bucket fill and is often greater than the actual volume, heaped, at full turn.

- SUPPLEMENTAL OPERATING DATA

  The values listed relate to the bucket fill at 110% and are higher than the ISO dimensions. Use the bucket selection chart with regard to the material density.

### ORDERING-INFORMATION

- STANDARD ACCESSORIES
  - 1500 mm Long Boom
  - 2.9 l filter
  - 3.7 l fuel tank
  - 95 l hydraulic tank
  - 280 l hydraulic tank
  - 360 l oil tank
  - 2.6 l water tank
  - 45 l diesel tank

- BUCKET SELECTION CHART

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### SORTING-GRAPPLE

- Long Boom

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- BUCKET SELECTION CHART

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### ELECTRICAL SYSTEM

- **Engine**
  - Voltage: 12 V
  - Outputs at:
    - 35 kW (47 hp)
    - 152 kW (203 hp)
    - 149 kW (200 hp)
  - Max. torque at:
    - 185 Nm (136 lb-ft)
    - 324 Nm (239 lb-ft)
- **Starting system**
  - With internal combustion engine: 12 V
  - With electric drive: 24 V

### BRAKE SYSTEM

- **Service brakes**
  - Single-stage: Optimized for all conditions.
  - Dual-stage: Meets the highest demands for safety and reduced maintenance.
- **Parking brake**
  - Hydraulically operated.
- **Hydraulic wheel brakes**
  - Double-wheel self-adjusting internal oil circulation-cooled disc brakes give long service intervals.

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### OPERATIONAL DATA & DIMENSIONS

#### OPERATIONAL DATA

- **Bucket fill**
  - 3.4 yd³ (3.7 m³)
  - 3.9 yd³ (4.6 m³)
- **Material density**
  - 93%  90%  87%  95%
- **Volume**
  - 3.4 yd³ (3.7 m³)
  - 3.9 yd³ (4.6 m³)
- **Operating load**
  - 3.0 m³
  - 3.3 m³
  - 3.6 m³

#### SUPPLEMENTAL OPERATING DATA

- **Operating weight**
  - 16,930 kg (19,890 lb)
  - 16,860 kg (18,700 lb)
  - 16,800 kg (18,510 lb)
- **Operating load**
  - 3.0 m³
  - 3.3 m³
  - 3.6 m³

#### BUCKET SELECTION CHART

The choice of bucket is determined by the density of the material and the bucket fill factor.

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  - Double-wheel self-adjusting internal oil circulation-cooled disc brakes give long service intervals.
**DRIVETRAIN**

Durable and working hydraulics well-matched to each other.

**SERVICE REFILL CAPACITIES**

Continuous monitoring system provides information on machine condition, reduces maintenance schedule and minimizing downtimes for trouble finding.

**ELECTRICAL SYSTEM**

Service accessibility: Large, easy-to-open access doors with gas-filled radiator grille and side panels.

**ENGINE**

Fuel tank: 255 l

Engine coolers: 1

Engine control: 665 l

HYDRAULIC SYSTEM

5,4 kW (7,3 hp)

**OPERATIONAL DATA VOLVO L120C**

**Supplemental Operating Data**

Operating weight

- Tipping load full face

- Tipping load side dump

- G-force

- Breakout force

- Tire pressure (rear)

- Tire pressure (front)

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Volvo Construction Equipment Group

**LIFT SYSTEM**

Open centre hydraulics with highly efficient valve pumps allows precise control even at low air pressure with quick response times to the high-capacity pumps.

**STROKE**

- Piston rod diameter

**Piston**

- Double-acting piston

**Bore**

- as per ISO 6396, bracket

**Jump-start connector (Nato)**

- Light, registration plate

**Side marker lights**

- Contronic display

**Sound level in cab**

- low emission engine

**OPTIONAL EQUIPMENT**

- Long Boom

- Noise reduction kit, cab

- Timber grapples

- Diagonal snow blade

- Broom

- Cutting edge, 3 pc reversible, bolt-on

- Bucket teeth, bolt-on

**Service and maintenance equipment**

- Tool box

- Air compressor/air dryer

**Engine**

- Fuel filter

- Air filter

- Engine oil filter

- Oil cooler

- Intercooler

- Turbocharger

- Drive belt, alternator

- Engine oil pressure

- Engine coolant temperature

- Air cleaner restriction

- Alternator malfunction

- Working lights

**Brake System**

- Foot brake

- Service brake

- Parking brake

**Electrical System**

- Alternator, 24 V, 60 A

- Battery disconnect switch

- Fuel gauge

- Hourmeter

- Illuminated panel with symbols:
  - direction indicator, hazard
  - brake system pressure
  - battery voltage
  - warning & monitoring lights

**LIFT ARM SYSTEM**

- Double variable-flow axial piston pump.

- Double-acting cylinders.

- Two double-acting cylinders.

- Two double-acting cylinders.

**Hydraulic System**

- Variable hydraulic control valve

- Dual circuit boom systems, secondary

**Drive System**

- Foot clutch

- Drive belt

- Speedometer

**Electrical System**

- Alternator, 24 V, 60 A

- Battery disconnect switch

- Fuel gauge

- Hourmeter

**Engine**

- Exhaust system, 2-stroke

- Exhaust system, 4-stroke

- Engine oil filter

- Oil cooler

- Intercooler

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**Brake System**

- Foot brake

- Service brake

- Parking brake

**Electrical System**

- Alternator, 24 V, 60 A

- Battery disconnect switch

- Fuel gauge

- Hourmeter

- Illuminated panel with symbols:
  - direction indicator, hazard
  - brake system pressure
  - battery voltage
  - warning & monitoring lights

**LIFT ARM SYSTEM**

- Double variable-flow axial piston pump.

- Double-acting cylinders.

- Two double-acting cylinders.

**Hydraulic System**

- Variable hydraulic control valve

- Dual circuit boom systems, secondary

**Drive System**

- Foot clutch

- Drive belt

- Speedometer

**Electrical System**

- Alternator, 24 V, 60 A

- Battery disconnect switch

- Fuel gauge

- Hourmeter

**Engine**

- Exhaust system, 2-stroke

- Exhaust system, 4-stroke

- Engine oil filter

- Oil cooler

- Intercooler

- Turbocharger

- Drive belt, alternator

- Engine oil pressure

- Engine coolant temperature

- Air cleaner restriction

- Alternator malfunction

- Working lights

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- Two double-acting cylinders.
**STEEPING SYSTEM**

Low-effort steering gives short work cycle times. Power-efficient system provides good fuel economy, good directional stability and smooth rides.

Steering system: Load-sensing hydrostatic articulated steering with power amplification.

**System supply**
The system supply is a sequential steering pump.

**Pump**
Double variable-flow axial piston pump.

Cylinders
- Two double-acting cylinders.
  - Stroke: 230 mm
  - Bore: 80 mm
  - Max fan position: 2
  - External equipment
    - Brakes
    - Directional indicator
    - Parking brake
    - Emergency stop
    - Bucket locking
    - Fighting edge
  - Optional Equipment
    - Heavy duty seat
    - Air suspension seat
    - Seat belts
    - Armrests
    - Shielded armrests
    - Seat, adjustable in all directions
    - Cab floor
    - Traction drive
    - Auxiliary drive
    - Air conditioning
    - Heating system
    - Fan
    - Cooling system
    - Insulated cab
    - Air blower
    - Cooling system
    - Heating system
    - Fan
    - Insulated cab

**CAB**
Care Cab with easy entry and wide door opening. Lined with sound absorbent material. Sound and vibration suppressive suspension. Good all-round visibility, large glass areas.

Windshield: Laminated, green-tinted glass. Ergonomically located controls and instruments permit a comfortable operating position.

**Instrumentation**
All information important to the operator is readily visible in front of him. Cab display for Contronic monitoring system.

**Heater and defroster**
Heating element with filtered fresh air and 1-speed defroster outlets for all windows.

**Operator’s seat**
Spring suspended, adjustable operator’s seat with belt. The seat is mounted on a bracket on the rear wall. The force from the belt is absorbed by the seat rails.

**Standards**
Tested and approved according to the following standards:
- IS09001:2000
- SAE J1040
- SAE J231
- FOPS (SAE J 231) (ISO 3449), SAE J1040
- ROPS (SAE J1040) (ISO 3471), SAE J1040
- “Overhead guards for rider-lift trucks” (ISO 6055)
- “Operator Restraint System” (SAE J386)

**Service and maintenance equipment**
- Tool box
- Service equipment
- Air compressor
- Tool kit

**Engine**
- Water cooled, 8 cylinder, in-line, turbocharged, intercooled diesel engine
- Max power: 230 kW (306 HP) at 2,100 rpm
- Max torque: 980 Nm at 1,500 rpm
- Min speed: 800 rpm
- Fuel consumption: 425 l/100 h

**Oil cooling**
- Air conditioned, 3-speed version
- Low-effort steering gives short work cycle times. Power-efficient system provides good fuel economy, good directional stability and smooth rides.

**LIFT SYSTEM**

7’ Lifting Lineage combines high breakout torque throughout the working range with nearly exact parallelism. These features together with light lift height and long reach make the Lifting Lineage equally good in bucket loading as in work with track attachments and material handling jobs.

**OPTIONAL EQUIPMENT**

May be ordered without prior notice. The illustrations do not necessarily show the standard version of the machine.

- Engine oil filter
- Air filter
- Fuel filter
- Coolant filter
- Oil cooler
- External fuel filter
- Air cleaner
- Filtered air
- Floor mat
- Interior light
- Interior rearview mirror
- Warning flasher
- Warning & monitoring lights
- Electronic control unit
- Counterweight (SAE J867)
- Tachometer
- Hour meter
- Speedometer
- Odometer
- Oil pressure monitor
- Transmission oil temperature monitor
- Brake system pressure monitor
- Parking brake alarm
- Engine oil pressure monitor
- Brake system pressure monitor
- Engine coolant temperature monitor
- Air cleaner restriction monitor
- Alternator malfunction monitor
- Working lights
- Warning & monitoring lights
- Heat exchanger
- Cooling system
- Power steering
- Auxiliaries
- Cab controls
- Side windows
- ROPS
- FOPS
- Cabin
- Suspension
- Cab floor
- Traction drive
- Auxiliary drive
- Air conditioning
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