**Volvo Transmission with APS II**
- the 2nd generation of Automatic Power Shift with mode selector
- optimizes performance

**Wet Disc Brakes**
- fully sealed oil-circulation cooled wet disc brakes

**Torque Parallel Linkage**
- high breakout torque throughout the working range
- excellent parallel lift-arm action

**Care Cab II**
- pressurized cab with high comfort and safety

**Contronic II** monitoring system

**Load-sensing** steering system

**Pilot-operated** working hydraulics

**Optional Equipment**
- Boom Suspension
- Comfort Drive Control
- Long Boom
- Hydraulic attachment bracket

**Engine Output**
SAE J1995: gross 189 kW (257 hp)
ISO J9249, SAE J1349: net 186 kW (253 hp)

**Operating Weight**: 23.2-25.5 t

**Buckets Volume**: 3.5–12.0 m³

**Volvo High Performance Low Emission Engine**
- with excellent low rpm performance
- meets all known exhaust emission regulations for off-road machines until year 2002
- hydrostatically driven, cooling fan
SERVICE

The Conronic II monitoring system provides information on schedule service intervals and machine condition.
Minimizes time required for troubleshooting.

Service accessibility: Large, easy-to-open engine access doors with gas struts. Hinged radiator grill and radiator.

Refill capacities
Fuel tank .................. 318 l
Engine coolant ........... 70 l
Engine oil .................. 27 l
Hydraulic tank ............ 165 l
Axle front/rear .......... 55/54 l

DRIVETRAIN

Drivetrain and working hydraulics well-matched to each other. Dependable design. Quick acceleration boosts productivity. Volvo system-compatible design facilitates servicing.

Transmission: Single-stage.

Transmission converter: Single-stage.


Shifting system: Volvo Automatic Power Shift generation II with mode selector (APS II).

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

ENGINE

Engine delivers high torque and quick response at low rpm even under full load. The machine can work at low engine speeds, which contributes to good fuel economy, less noise, less wear and longer life.

Engine: High performance-low emission, 6-cylinder, in-line, direct-injected, turbocharged, intercooled 4-stroke diesel engine with wet replaceable cylinder liners.

Air cleaning: three-stage.

Cooling system: Hydrostatically driven fan with separate cooling for the intercooler circuit.

Engine ............................................. Volvo TD 103 KCE
Max power at ........................... 35,0 r/s (2100 r/min)
SAE J1995 gross ..................... 189 kW (257 hp)
ISO 9249, SAE J1349 net ........ 186 kW (253 hp)
Max. torque at .......................... 18,3 r/s (1100 r/min)
SAE J1995 gross ..................... 1390 Nm
ISO 9249, SAE J1349 net ........ 1390 Nm
Displacement .......................... 9,6 l

Electrical system

Conronic II monitoring system with increased function control. Electrical system with circuit boards, well protected by fuses. The system is pre-wired for installation of optional equipment.

Central warning lamp for the following functions: Engine oil pressure, transmission oil pressure, transmission oil temperature, transmission oil filter, brake system pressure, steering pressure.

Central warning lamp with buzzer for the following functions: engine coolant temperature, overspeeding of engine/transmission, axle temperature, parking brake (if applied when operating), low brake pressure (when gear is engaged).

Voltage .......................................... 24 V
Batteries ........................................ 2x12 V
Battery capacity ..................... 2x140 Ah
Cold cranking capacity, ea ........ 1050 A
Reserve capacity, ea ................. 290 min
Alternator rating ..................... 1680 W / 60 A
Starter-motor output .................. 5,4 kW (7,3 hp)

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Alternator rating ..................... 1680 W / 60 A
Starter-motor output .................. 5,4 kW (7,3 hp)

BRAKE SYSTEM

A simple and reliable brake system with few moving parts. Self-adjusting oil circulation cooled wet disc brakes give long service intervals. Brake wear indicator and brake test in Conronic II are included in the brake system.

Service brakes: Volvo, dual-circuit system with nitrogen-charged accumulators. Fully hydraulically operated enclosed internal oil circulation-cooled outboard mounted disc brakes. Transmission declutch during braking can be preselected by a switch on the instrument panel.

Parking brake: Enclosed wet multi-disc brake built into the transmission. Spring applied, electro-hydraulic released via a switch on the instrument panel. Applies automatically when the key is turned off.

Secondary brake: Dual-circuit system with rechargeable accumulators. One circuit or the parking brake fulfills the requirements.

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Secondary brake: Dual-circuit system with rechargeable accumulators. One circuit or the parking brake fulfills the requirements.

 Standards: The brake system complies with the requirements of ISO 3450, SAE J1473

Number of discs/wheel .............. 1
Accumulators, volume each ........ 3x1,0 l
................................................................. 1x0,5 l

Refill capacities
Hydraulic tank ...................... 165 l
Engine coolant ....................... 70 l
Fuel tank ............................. 318 l

Transmission: Volvo Automatic Power Shift generation II with mode selector (APS II).

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

Transmission .................. Volvo HT 210
Torque multiplication .......... 2,40:1
Speeds, max forward/reverse
1 .......................................... 6,3 km/h
2 .......................................... 11,8 km/h
3 .......................................... 23,3 km/h
4 .......................................... 33,9 km/h

Measured with tires .................. 26.5 R25* L3
Front axle and rear axle .......... Volvo / AWB 40
Oscillation, rear axle .............. ±15 °
Ground clearance at
15° oscillation ...................... 610 mm

Conronic II monitoring system provides information on schedule service intervals and machine condition.
Minimizes time required for troubleshooting.

Service accessibility: Large, easy-to-open engine access doors with gas struts. Hinged radiator grill and radiator.
### Operational Data Volvo L150D

**Standard Boom**

<table>
<thead>
<tr>
<th>Tires 26.5 R25*L3</th>
<th>Teeth &amp; Segments</th>
<th>Teeth &amp; Segments</th>
<th>Teeth &amp; Segments</th>
<th>Teeth &amp; Segments</th>
<th>Bolt-on edges</th>
<th>Bolt-on edges</th>
<th>Bolt-on edges</th>
<th>Bolt-on edges</th>
<th>Bolt-on edges</th>
<th>Bolt-on edges</th>
<th>Bolt-on edges</th>
<th>Bolt-on edges</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume, heaped, ISO/SAE</td>
<td>m³</td>
<td>3.7</td>
<td>3.8</td>
<td>4.0</td>
<td>4.2</td>
<td>3.7</td>
<td>4.0</td>
<td>3.8</td>
<td>3.5</td>
<td>6.8</td>
<td>–</td>
<td></td>
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<tr>
<td>Volume at 110% fill factor</td>
<td>m³</td>
<td>4.1</td>
<td>4.2</td>
<td>4.4</td>
<td>4.6</td>
<td>4.1</td>
<td>4.4</td>
<td>4.2</td>
<td>3.9</td>
<td>7.5</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>Static tipping load, straight</td>
<td>kg</td>
<td>17390</td>
<td>17810</td>
<td>17300</td>
<td>17250</td>
<td>16810</td>
<td>16730</td>
<td>17800</td>
<td>18080</td>
<td>16440</td>
<td>–3430</td>
<td></td>
</tr>
<tr>
<td>at 35° turn</td>
<td>kg</td>
<td>15460</td>
<td>15870</td>
<td>15370</td>
<td>15330</td>
<td>14920</td>
<td>14840</td>
<td>15800</td>
<td>16050</td>
<td>14540</td>
<td>–3130</td>
<td></td>
</tr>
<tr>
<td>at full turn</td>
<td>kg</td>
<td>15240</td>
<td>15650</td>
<td>15150</td>
<td>15110</td>
<td>14710</td>
<td>14620</td>
<td>15580</td>
<td>15820</td>
<td>14320</td>
<td>–3100</td>
<td></td>
</tr>
<tr>
<td>Breakout force</td>
<td>kN</td>
<td>180.4</td>
<td>184.4</td>
<td>174.5</td>
<td>164.9</td>
<td>169.5</td>
<td>164.2</td>
<td>177.8</td>
<td>163.0</td>
<td>127.1</td>
<td>–20.3</td>
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</tr>
<tr>
<td>A</td>
<td>mm</td>
<td>8540</td>
<td>8570</td>
<td>8590</td>
<td>8700</td>
<td>8460</td>
<td>8510</td>
<td>8590</td>
<td>8710</td>
<td>8970</td>
<td>+520</td>
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</tr>
<tr>
<td>E</td>
<td>mm</td>
<td>1330</td>
<td>1350</td>
<td>1380</td>
<td>1460</td>
<td>1260</td>
<td>1300</td>
<td>1360</td>
<td>1480</td>
<td>1700</td>
<td>+10</td>
<td></td>
</tr>
<tr>
<td>H**</td>
<td>mm</td>
<td>2960</td>
<td>2940</td>
<td>2920</td>
<td>2850</td>
<td>3020</td>
<td>2980</td>
<td>2940</td>
<td>2860</td>
<td>2620</td>
<td>+570</td>
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<tr>
<td>L</td>
<td>mm</td>
<td>5820</td>
<td>5890</td>
<td>5880</td>
<td>5960</td>
<td>5830</td>
<td>5930</td>
<td>5950</td>
<td>5990</td>
<td>6090</td>
<td>+570</td>
<td></td>
</tr>
<tr>
<td>M**</td>
<td>mm</td>
<td>1310</td>
<td>1340</td>
<td>1340</td>
<td>1390</td>
<td>1240</td>
<td>1280</td>
<td>1310</td>
<td>1410</td>
<td>1550</td>
<td>–10</td>
<td></td>
</tr>
<tr>
<td>N**</td>
<td>mm</td>
<td>1870</td>
<td>1890</td>
<td>1890</td>
<td>1900</td>
<td>1810</td>
<td>1830</td>
<td>1860</td>
<td>1930</td>
<td>1930</td>
<td>+440</td>
<td></td>
</tr>
<tr>
<td>V</td>
<td>mm</td>
<td>3200</td>
<td>3230</td>
<td>3200</td>
<td>3200</td>
<td>3200</td>
<td>3200</td>
<td>3230</td>
<td>3230</td>
<td>3200</td>
<td>–</td>
<td></td>
</tr>
<tr>
<td>a₁ clearance circle</td>
<td>mm</td>
<td>14690</td>
<td>14740</td>
<td>14710</td>
<td>14570</td>
<td>14650</td>
<td>14670</td>
<td>14740</td>
<td>14800</td>
<td>14890</td>
<td>+340</td>
<td></td>
</tr>
<tr>
<td>Operating weight</td>
<td>kg</td>
<td>23350</td>
<td>23180</td>
<td>23440</td>
<td>23430</td>
<td>23600</td>
<td>23680</td>
<td>24780</td>
<td>24830</td>
<td>23830</td>
<td>+170</td>
<td></td>
</tr>
</tbody>
</table>

**) Measured to the tip of the bucket teeth or bolt-on edge. Dump height to bucket edge (acc. SAE) + approx. 170 mm compared to teeth. Measured at 45° dump angle.

### Bucket Selection Chart

The choice of bucket is determined by the density of the material and the expected bucket fill factor. The actual bucket volume is often larger than the rated capacity, due to the TP Linkage features: • Open bucket design. • Very good roll back in all positions. • Good bucket fill performance. Example: Sand and gravel. Fill factor ~105%. Density 1,70 ton/m³. Result: The 3,5 m³ bucket carries 3,7 m³. For optimum stability always consult the bucket selection chart.

<table>
<thead>
<tr>
<th>Material</th>
<th>Bucket fill, %</th>
<th>Material density, ton/m³</th>
<th>ISO/SAE Bucket volume, m³</th>
<th>Actual volume, m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earth/Clay</td>
<td>–110</td>
<td>–1.65</td>
<td>3.5</td>
<td>–3.9</td>
</tr>
<tr>
<td>Sand/Gravel</td>
<td>–105</td>
<td>–1.70</td>
<td>3.5</td>
<td>–3.7</td>
</tr>
<tr>
<td>Aggregate</td>
<td>–100</td>
<td>–1.80</td>
<td>3.5</td>
<td>–3.5</td>
</tr>
<tr>
<td>Rock</td>
<td>≤100</td>
<td>–1.70</td>
<td>3.5</td>
<td>–3.5</td>
</tr>
</tbody>
</table>

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

### Supplemental operating data

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Width over tires</td>
<td>mm</td>
<td>+30</td>
<td>+30</td>
<td>+30</td>
<td>+30</td>
<td></td>
</tr>
<tr>
<td>Ground clearance</td>
<td>mm</td>
<td>+60</td>
<td>–80</td>
<td>+60</td>
<td>–80</td>
<td></td>
</tr>
<tr>
<td>Tipping load, full turn</td>
<td>kg</td>
<td>+830</td>
<td>–180</td>
<td>+690</td>
<td>–150</td>
<td></td>
</tr>
<tr>
<td>Operating weight</td>
<td>kg</td>
<td>+1050</td>
<td>–230</td>
<td>+1050</td>
<td>–230</td>
<td></td>
</tr>
</tbody>
</table>
OPERATIONAL DATA & DIMENSIONS

<table>
<thead>
<tr>
<th>Standard Boom</th>
<th>Long Boom</th>
</tr>
</thead>
<tbody>
<tr>
<td>B 6680 mm</td>
<td>7380 mm</td>
</tr>
<tr>
<td>C 3550 mm</td>
<td>3550 mm</td>
</tr>
<tr>
<td>D 500 mm</td>
<td>500 mm</td>
</tr>
<tr>
<td>F 3560 mm</td>
<td>3560 mm</td>
</tr>
<tr>
<td>G 2134 mm</td>
<td>2134 mm</td>
</tr>
<tr>
<td>J 3940 mm</td>
<td>4530 mm</td>
</tr>
<tr>
<td>K 4340 mm</td>
<td>4910 mm</td>
</tr>
<tr>
<td>O 58.4 °</td>
<td>59.0 °</td>
</tr>
<tr>
<td>P** 49.1 °</td>
<td>49.1 °</td>
</tr>
<tr>
<td>R 44.6 °</td>
<td>47.2 °</td>
</tr>
<tr>
<td>R1* 47.8 °</td>
<td>52.7 °</td>
</tr>
<tr>
<td>S 65.7 °</td>
<td>61.0 °</td>
</tr>
<tr>
<td>T 80 mm</td>
<td>110 mm</td>
</tr>
<tr>
<td>U 520 mm</td>
<td>640 mm</td>
</tr>
<tr>
<td>X 2280 mm</td>
<td>2280 mm</td>
</tr>
<tr>
<td>Y 2950 mm</td>
<td>2950 mm</td>
</tr>
<tr>
<td>Z 3570 mm</td>
<td>4050 mm</td>
</tr>
<tr>
<td>a2 6780 mm</td>
<td>6780 mm</td>
</tr>
<tr>
<td>a3 3830 mm</td>
<td>3830 mm</td>
</tr>
<tr>
<td>a4 37.0 °</td>
<td>37.0 °</td>
</tr>
</tbody>
</table>

* Carry position SAE
** P max 49°

Where applicable, specifications and dimensions are in accordance with ISO 7131, SAE J732, ISO 7546, SAE J742, ISO 5998, SAE J818, ISO 8313.

LOG GRAPPLE (hook on)

Tires: 26.5 R25* L3

- Operating weight: 24450 kg including logging counterweight
- Operating load: 7700 kg with logging counterweight

<table>
<thead>
<tr>
<th>A 3.1 m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>B 3650 mm</td>
</tr>
<tr>
<td>C 2100 mm</td>
</tr>
<tr>
<td>D 2950 mm</td>
</tr>
<tr>
<td>E 1630 mm</td>
</tr>
<tr>
<td>F 1600 mm</td>
</tr>
<tr>
<td>G 2930 mm</td>
</tr>
<tr>
<td>H 4990 mm</td>
</tr>
<tr>
<td>I 7250 mm</td>
</tr>
<tr>
<td>J 3000 mm</td>
</tr>
<tr>
<td>K 3280 mm</td>
</tr>
<tr>
<td>L 2300 mm</td>
</tr>
<tr>
<td>M 8950 mm</td>
</tr>
</tbody>
</table>
STEERING SYSTEM
Low-effort steering gives short work cycle times. Power-efficient system provides good fuel economy, good directional stability and smooth ride.

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

System supply: The steering system is supplied from a separate steering pump.

Pump: Variable-flow axial piston pump.

Cylinders: Two double-acting cylinders.

Steering cylinder ...................... 2
Bore ........................................ 90 mm
Piston rod diameter ................. 50 mm
Stroke ..................................... 418 mm
Relief pressure ....................... 21 MPa
Max. flow ............................... 91 l/min.
Articulation ............................. ± 37°

CAB
Care Cab II with wide door opening and comfortable instep. Inside of cab lined with noise-absorbent materials. Noise and vibration suppressing suspension. Good all-round visibility through large glass areas. Curved front windshield of green-tinted glass. Ergonomically positioned controls and instruments permit a comfortable operating position.

Instrumentation: All important information is centrally located in the operator’s field of vision. Display for Contronic II monitoring system.

Heater and defroster: Heater coil with filtered fresh air and fan with four 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. Meets ISO/DIS 7096–1997.

Standard: The cab is tested and approved according to ROPS (ISO/CD 3471, SAE J1040), FOPS (3449, SAE J231), Overhead Guards (ISO 6055) and Operator Restraint System (SAE J386)

LIFT ARM SYSTEM
Open center hydraulics with highly efficient vane pumps allows precision control and quick movements even at low rpm’s thanks to the high capacity pumps.

Pump: A single vane pump mounted on a power take-off on the transmission.

Valve: Double-acting 3-spool valve actuated by a 3-spool pilot valve.

Lift function: The valve has four functions: raise, hold, lower and float. Inductive/magnetic automatic boom kickout can be switched on and off and is adjustable to any position between maximum reach and full lift height.

Tilt function: The valve has three functions: rollback, hold and dump. Inductive/magnetic automatic bucket positioner, that can be switched on and off.

Cylinders: Double-acting

Filter: Full-flow filtration through 20 μm (absolute) filter cartridge.

Vane pump
Relief pressure ......................... 21,0 MPa
Flow ........................................ 313 l/min
at ........................................... 10 MPa
and engine speed ................... 35 r/s (2100 r/min)
Pilot system
Relief pressure ......................... 3,0-4,5 MPa
Cycle times
Raise* ..................................... 6,7 s
Dump* ..................................... 1,9 s
Lower, empty ......................... 3,2 s
Total cycle time ..................... 11,8 s

* with load as per ISO 5998 and SAE J818

HYDRAULIC SYSTEM
Open center hydraulics with highly efficient vane pumps allows precision control and quick movements even at low rpm’s thanks to the high capacity pumps.

Pump: A single vane pump mounted on a power take-off on the transmission.

Valve: Double-acting 3-spool valve actuated by a 3-spool pilot valve.

Lift function: The valve has four functions: raise, hold, lower and float. Inductive/magnetic automatic boom kickout can be switched on and off and is adjustable to any position between maximum reach and full lift height.

Tilt function: The valve has three functions: rollback, hold and dump. Inductive/magnetic automatic bucket positioner, that can be switched on and off.

Cylinders: Double-acting

Filter: Full-flow filtration through 20 μm (absolute) filter cartridge.

Vane pump
Relief pressure ......................... 21,0 MPa
Flow ........................................ 313 l/min
at ........................................... 10 MPa
and engine speed ................... 35 r/s (2100 r/min)
Pilot system
Relief pressure ......................... 3,0-4,5 MPa
Cycle times
Raise* ..................................... 6,7 s
Dump* ..................................... 1,9 s
Lower, empty ......................... 3,2 s
Total cycle time ..................... 11,8 s

* with load as per ISO 5998 and SAE J818

LIFT ARM SYSTEM
TP Linkage combines high breakout torque throughout the working range with parallel lift-arm action. These features together with high lift height and long reach make the lift-arm system equally as good in bucket loading as in work with fork attachments and material handling arms.

Lift cylinder ......................... 2
Bore ........................................ 170 mm
Piston rod diameter ................. 80 mm
Stroke .................................... 788 mm
Tilt cylinder ......................... 1
Bore ........................................ 250 mm
Piston rod diameter ................. 120 mm
Stroke .................................... 452 mm
STANDARD EQUIPMENT

Engine
Air cleaner, dry type, dual element, exhaust aspirated precleaner
Coolant level, sight gauge
Engine intake manifold preheater
Muffler, spark arresting
Dual fuel filter
Watertrap

Electrical System
24 V – prewired for optional accessories
Alternator, 24 V/80 A
Battery disconnect switch
Fuel gauge
Engine coolant temperature
Transmission oil temperature
Hourmeter
Horn, electric
Speedometer
Instrument panel with symbols
Lights:
• (2 front, 2 rear)
• high/low beam
• parking lights
• stop/tail combination (2 rear)
• turn signals with hazard
• warning switch
• working lights, halogen
• (2 front, 2 rear)
• instrument lightning

Contronic II Monitoring System, ECU
Engine
Contronic "display"
Shut down to idle function
• high engine coolant temp
• low engine oil pressure
• high transm. oil temp
Neutral start feature
Test function for warning & monitoring lights
Warning & monitoring lights:
• oil pressure
• engine coolant temperature
• air cleaner restriction
• alternator malfunction
• working lights
• (buzzer)
• direction indicator, hazard
Central warning:
• transmission oil pressure
• transmission oil temperature
• brake system pressure (buzzer)
• steering pressure
• axle oil temperature (buzzer)
• transmission oil filter
• overspeeding of engine/transmission (buzzer)
• engine oil pressure
• engine coolant temperature (buzzer)
• Parking brake applied and reverse (buzzer)
• Brake test by contronic

Drivetrain
Transmission: modulated with single lever control, automatic power shift, and operator controlled declutch
Forward and reverse switch
Differentials:
front 100%, hydraulic differential
lock rear, conventional

Tires 26.5 R25*

Brake System
Wet, internal oil circulation cooled
Disc brakes, 4-wheel, dual circuit
Brake system, secondary
Parking brake alarm

Cab
ROPS (SAE J1040CC) (ISO 3471),
FOPS (SAE J 231) (ISO 3449),
Acutical lining
Ashtray
Cigarette lighter
Door lockable (left side access)
Heater/defroster/pressurizer
11 kW/h with four speed blower fan
Filtered air
Floor mat
Interior light
Interior rearview mirror
Mirrors rearview (2), exterior
Openable window, right-hand side
Safety glass, tinted
Windshield washer, front & rear

Electrical System
Radiator, corrosion protected
Pre-cleaner, oil bath type
Cold starting aid, engine
Coolant filter
Coolant preheater (220 V/1500 W)
Pre-cleaner, oil bath type
Isolation mounts: cab, engine
Exterior sound reduction kit, cab
Noise reduction kit, cab
Instructor seat
Interior rearview mirror
Interior light
Floor mat
Heater/defroster/pressurizer
Battery disconnect switch
Alternator, 24 V/60 A
24 V – prewired for optional accessories

Drivetrain
Engine
Contronic "display"
Shut down to idle function
• high engine coolant temp
• low engine oil pressure
• high transm. oil temp
Neutral start feature
Test function for warning & monitoring lights
Warning & monitoring lights:
• oil pressure
• engine coolant temperature
• air cleaner restriction
• alternator malfunction
• working lights
• (buzzer)
• direction indicator, hazard
Central warning:
• transmission oil pressure
• transmission oil temperature
• brake system pressure (buzzer)
• steering pressure
• axle oil temperature (buzzer)
• transmission oil filter
• overspeeding of engine/transmission (buzzer)
• engine oil pressure
• engine coolant temperature (buzzer)
• Parking brake applied and reverse (buzzer)
• Brake test by contronic

Brake System
Wet, internal oil circulation cooled
Disc brakes, 4-wheel, dual circuit
Brake system, secondary
Parking brake alarm

Cab
ROPS (SAE J1040CC) (ISO 3471),
FOPS (SAE J 231) (ISO 3449),
Acutical lining
Ashtray
Cigarette lighter
Door lockable (left side access)
Heater/defroster/pressurizer
11 kW/h with four speed blower fan
Filtered air
Floor mat
Interior light
Interior rearview mirror
Mirrors rearview (2), exterior
Openable window, right-hand side
Safety glass, tinted
Windshield washer, front & rear

External Equipment
Isolation mounts: cab, engine
Lifting lugs
Drawbar with pin
Side panels, engine hood
Steering frame lock
Vandalism lock, provision for:
batteries, engine oil

OPTIONAL EQUIPMENT

Service and maintenance equipment
Tool box
Tool kit
Auto lube system
Fill pump
Wheel nut wrench kit

Engine
Coolant filter
Cold starting aid, engine
coolant preheater (220 V/1500 W)
Pre-cleaner, oil bath type
Radiator, corrosion protected

Electrical System
Reverse alarm (SAE J994)
Attachment lights (halogen)
Light registration plate
Working lights front, extra
Working lights rear, extra
Rotating beacon, amber with collapsible mount
Head lights assym. left
Side marking lamp

Contronic II Monitoring System, ECU
Engine
Contronic "display"
Shut down to idle function
• high engine coolant temp
• low engine oil pressure
• high transm. oil temp
Neutral start feature
Test function for warning & monitoring lights
Warning & monitoring lights:
• oil pressure
• engine coolant temperature
• air cleaner restriction
• alternator malfunction
• working lights
• (buzzer)
• direction indicator, hazard
Central warning:
• transmission oil pressure
• transmission oil temperature
• brake system pressure (buzzer)
• steering pressure
• axle oil temperature (buzzer)
• transmission oil filter
• overspeeding of engine/transmission (buzzer)
• engine oil pressure
• engine coolant temperature (buzzer)
• Parking brake applied and reverse (buzzer)
• Brake test by contronic

Drivetrain
Transmission: modulated with single lever control, automatic power shift, and operator controlled declutch
Forward and reverse switch
Differentials:
front 100%, hydraulic differential
lock rear, conventional

Tires 26.5 R25*

Hydraulic System
Radiator, corrosion protected
Pre-cleaner, oil bath type
Cold starting aid, engine
Coolant filter
Coolant preheater (220 V/1500 W)
Pre-cleaner, oil bath type

Drivetrain
Transmission: modulated with single lever control, automatic power shift, and operator controlled declutch
Forward and reverse switch
Differentials:
front 100%, hydraulic differential
lock rear, conventional

Tires 26.5 R25*

Brake System
Wet, internal oil circulation cooled
Disc brakes, 4-wheel, dual circuit
Brake system, secondary
Parking brake alarm

Cab
ROPS (SAE J1040CC) (ISO 3471),
FOPS (SAE J 231) (ISO 3449),
Acutical lining
Ashtray
Cigarette lighter
Door lockable (left side access)
Heater/defroster/pressurizer
11 kW/h with four speed blower fan
Filtered air
Floor mat
Interior light
Interior rearview mirror
Mirrors rearview (2), exterior
Openable window, right-hand side
Safety glass, tinted
Windshield washer, front & rear

Electrical System
Radiator, corrosion protected
Pre-cleaner, oil bath type
Cold starting aid, engine
Coolant filter
Coolant preheater (220 V/1500 W)
Pre-cleaner, oil bath type
Isolation mounts: cab, engine
Exterior sound reduction kit, cab
Noise reduction kit, cab
Instructor seat
Interior rearview mirror
Interior light
Floor mat
Heater/defroster/pressurizer
Battery disconnect switch
Alternator, 24 V/60 A
24 V – prewired for optional accessories

Drivetrain
Engine
Contronic "display"
Shut down to idle function
• high engine coolant temp
• low engine oil pressure
• high transm. oil temp
Neutral start feature
Test function for warning & monitoring lights
Warning & monitoring lights:
• oil pressure
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• alternator malfunction
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• axle oil temperature (buzzer)
• transmission oil filter
• overspeeding of engine/transmission (buzzer)
• engine oil pressure
• engine coolant temperature (buzzer)
• Parking brake applied and reverse (buzzer)
• Brake test by contronic

Brake System
Wet, internal oil circulation cooled
Disc brakes, 4-wheel, dual circuit
Brake system, secondary
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Cab
ROPS (SAE J1040CC) (ISO 3471),
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Windshield washer, front & rear

External Equipment
Isolation mounts: cab, engine
Lifting lugs
Drawbar with pin
Side panels, engine hood
Steering frame lock
Vandalism lock, provision for:
batteries, engine oil

Tires
26.5 R25*
705/70 R25

Attachments
Kits
• straight edge
• spade nose
• general purpose
• light material
• high-dump
• Bucket teeth, bolt-on/weld-on
Cutting edge, 3 pc reversible, bolt-on
Bucket spillover
Fork equipment
Material handling arm
Timber grapples

For further information see
attachment catalogue

Under our policy of continuous product improvement, we reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine.