Engine

- Volvo TAD571 VE Tier 4f, 4 cycle, inline 4 cylinder, liquid cooled, electronic controlled
- Vertical canister style lube and main fuel filters and fuel/water separation with manual feed pump attached to engine
- Water in fuel indicator and alarm

Gross Rating: 172 hp @ 2000 rpm (128kW)
Net Rating: 152 hp @ 2000 rpm (113kW)

Variable viscous fan clutch system
Vertical stacked hydraulic oil cooler, charge air cooler and radiator
Block heater

Maximum slope: 30°
- 24 volt starter
- 100 amp alternator
- Two SAE #C31-S 1000 CCA batteries
- Two-stage dry type air cleaner with centrifugal pre-cleaner and safety element
- Vacuator valve and service indicator

Fuel tank capacity: 82 gallons (310 L)

Controls

- Two electronic joysticks (hoist and bucket, telescope and swing)
  One rocker switch (tilt) control
  Joysticks mounted on arm pods
  Quick change joystick pattern switch located on instrument panel
- Self-centering joysticks; when controls are released, power for movement disengages and swing and tilt brake set automatically
- Two electric foot pedals (with handles) control crawler travel speed and direction, crawler steering and crawler brakes
- Toggle switch on arm pod allows selection of two crawler speed ranges

Hydraulic System

- One load-sensing, axial piston pump; oil flow 0-100 gpm (0-378 L/min)
- Gear pump, 6 gpm (23 L/min)
- Maximizes fluid flow, reduces pressure losses, and maintains pump efficiency

- Key operated ignition/starter switch, throttle and main battery disconnect switch
- Air cleaner condition indicator
- Electronic monitor indicates fuel level, low battery charge, lube oil pressure, high coolant temperature, engine rpm and engine hours
- Fuel saving auto idle feature sends engine rpm to idle when control circuits are in neutral for seven seconds
- Variable viscous fan clutch system
- Vertical stacked hydraulic oil cooler, charge air cooler and radiator
- Block heater

Operating Pressures:
- Hoist: 4,900 psi (331 BAR)
- Tilt: 4,900 psi (331 BAR)
- Swing: 4,900 psi (331 BAR)
- Tool: 4,900 psi (331 BAR)
- Telescope: 4,900 psi (331 BAR)
- Propel: 4,900 psi (331 BAR)
- Pilot System: 550 psi (38 BAR)

Filtration System

- 10 micron return filter
- 10 micron pilot filter
- Fin and tube-type oil cooler with thermal by-pass and relief valves
- Pressure-compensated, load-sensing valves with circuit reliefs in all circuits

Crawler Drive

- Dual range, high torque piston motor powers each track
- Three-stage planetary drive with integral speed limiting valve and automatic spring-set/hydraulic release wet-disc parking brake

Travel Speed:
- on flat, level surface:
  - High Speed: 3.4 mph (5.5 km/h)
  - Low Speed: 1.9 mph (3.1 km/h)
- Automatic two-speed control shifts crawler drive into low speed under difficult travel conditions
- Manual override switch for loading the machine for transport

Gradeability:
- 58%, limited by engine lubrication requirements

Drawbar Pull
- 38,324 lbs (170 kN)

Individual Track Control

- Tracks counter-rotate to pivot machine about the swing centerline
- Electronically operated travel alarm signals crawler movement in either direction
**Dimensions**

- **A** Overall length with attachment open: 23'11" (7.3)
- **A1** Overall length without attachment: 21'10" (6.6)
- **B** Overall height with attachment open: 10'9" (3.3)
- **B1** Overall height without attachment: 10'5" (3.2)
- **C1** Width of upperstructure: 9'0" (2.7)
- **D** Minimum clearance, upperstructure to undercarriage: 5' (1.5)
- **E** Swing clearance, rear of upperstructure: 7'6" (2.3)
- **F** Top of cab guard to groundline: 10'5" (3.2)
- **G** Clearance, upperstructure to groundline: 3'5" (1.0)
- **J1** Axis of rotation to centerline of drive sprockets: 47° (1.4)
- **J2** Nominal distance between centerlines of drive sprockets and idlers: 92" (2.8)
- **J3** Axis of rotation to end of track assembly: 510" (1.3)
- **J4** Nominal overall length of track assembly: 119" (3.0)
- **K** Width of crawler (standard): 8'6" (2.6)
  Width of crawler (optional): 8'2" (2.5)

**Swing**
- Priority swing circuit with axial piston motor
- Planetary transmission

**Swing speed:** 8.0 rpm

**Swing Brake**
- Automatic spring-set/hydraulic release wet-disc parking brake
- Dynamic braking is provided by the hydraulic system

**Function Forces**
- **Rated Boom Force:** 22,075 lbs (98.2 kN)
- **Rated Ripper Tooth Force:** 25,405 lbs (113 kN)
- **Boom Rotating Torque:** 25,800 ft lb (34,980 Nm)
- **Boom Rotating Speed:** 7.0 rpm

**Weight**
- Approximate working weight with hammer, fuel tank half full and no operator

<table>
<thead>
<tr>
<th>Pad Size</th>
<th>Weight</th>
<th>Bearing Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>19.7&quot;</td>
<td>43,862 lbs</td>
<td>85 psi (586 kPa)</td>
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<tr>
<td>500 mm</td>
<td>(19,895 kg)</td>
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</tr>
<tr>
<td>236&quot;</td>
<td>44,327 lbs</td>
<td>10.1 psi (689 kPa)</td>
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<tr>
<td>600 mm</td>
<td>(20,106 kg)</td>
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</tr>
</tbody>
</table>

Specifications subject to change without notice. Metric units are meters (m) unless noted. Machines shown may have optional equipment.