## Engine
- Volvo TAD551 VE, Tier III (optional TAD571 VE Tier 4f), 4 cycle, inline 4 cylinder, liquid cooled, electronic controlled
- Vertical canister style lube filter and main fuel filters and fuel/water separation with manual feed pump attached to engine
- Water in fuel indicator and alarm

### Gross Rating:
- 173 hp @ 2200 rpm (129 kW)
- 590 ft lb Torque @ 1100-1500 rpm (800Nm)

### Net Rating:
- 153 hp @ 2200 rpm (114 kW)

## Boom
- Two piece triangular telescoping boom
- Adjustable boom rollers with eccentric shafts
- 360° continuous boom tilt
- 105° boom pivot angle
- Auxiliary hydraulics

## 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

## Hydraulic System
- One load-sensing, axial piston pump; oil flow 0-110 gpm (0-435 L/min)
- Gear pump, 6 gpm (23 L/min)

## Operation Pressures:
- Hoist: 4,900 psi (331 BAR)
- Tilt: 4,900 psi (331 BAR)
- Swing: 4,500 psi (310 BAR)
- Tool: 4,900 psi (331 BAR)
- Telescope: 4,900 psi (331 BAR)
- Propel: 4,900 psi (331 BAR)
- Pilot: 550 psi (38 BAR)

## Oil Capacity
- Reservoir system 65 gallons (246 L)
- Pressurized reservoir with visual oil level gauges

## 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:
- High Speed: 3.4 mph (5.5 km/h)
- Low Speed: 1.9 mph (3.1 km/h)

## 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: 28'4" (8.6)
A1 Overall length without attachment: 26'3" (8.0)
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 m)
E Swing clearance, rear of upperstructure: 6'6" (2.0 m)
F Top of cab guard to groundline: 10'5" (3.2)
G Clearance, upperstructure to groundline: 3'5" (1.0 m)
H1 Height of optional folding lift yoke lowered: 1'9" (0.5 m)
H2 Height of pin of optional folding lift yoke: 3'7" (1.1 m)
H3 Height of optional folding lift yoke: 4'1" (1.2 m)
H4 Height to pin of optional rigid lift yoke: 2'8" (0.8 m)
H5 Overall height of optional rigid lift yoke: 3'0" (0.9 m)
J1 Axis of rotation to centerline of drive sprockets: 5'1" (1.5 m)
J2 Nominal distance between centerlines of drive sprockets and idlers: 11'0" (3.4 m)
J3 Axis of rotation to end of track assembly: 6'10" (2.1 m)
J4 Nominal overall length of track assembly: 13'6" (4.2 m)
K Width of crawler (standard): 10'6" (3.2 m)
L Width of crawler (optional): 9'10" (3.0 m)
N Ground clearance (per SAE J1234): 18" (454 mm)
V Track gauge, roller centerline to roller centerline: 7'10" (2.4 m)
Y Width of crawler track assembly (standard): 31'5" (800 mm)
Y1 Nominal overall length of crawler assembly: 13'8" (4.2 m)
Z1 Width of crawler track assembly (optional): 23'6" (6.0 m)
Z2 Width of crawler track assembly (optional): 23'6" (6.0 m)
AAMaximum radius at groundline (Scaling Hook): 34'10" (10.6 m)
AH Minimum radius at groundline: 14'9" (4.5 m)
AK Boom pivot to groundline: 5'8" (1.7 m)
AL Boom pivot to axis of rotation: 1'11" (0.6 m)
AP Attachment tooth radius: 3'10" (1.2 m)
AQ Boom pivot angle: 30° Up and 75° Down
AS Attachment pivot angle: 165°
AV Minimum telescoping boom length (boom pivot to attachment pivot): 29'6" (9.0 m)
AW Minimum telescoping boom length (boom pivot to attachment pivot): 15'6" (4.7 m)
AX Boom tilt angle (continuous): 360°
BA Maximum radius of working equipment: 35'4" (10.8 m)
BB Maximum height of working equipment: 26'0" (7.9 m)
BD Minimum clearance of attachment at maximum height: 18'5" (5.7 m)
BF Minimum clearance of attachment at maximum boom height: 11'5" (3.5 m)
BG Maximum height of working equipment: 23'6" (6.0 m)
BH Radius of attachment tooth at maximum height: 27'1" (8.2 m)

Swing

- Priority swing circuit with axial piston motor
- Planetary transmission

Swing speed: 70 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: 24,941 lbs (111 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>236°</td>
<td>58,032 lbs (26,322 kg)</td>
<td>93 psi (64.1 kPa)</td>
</tr>
<tr>
<td>315°</td>
<td>59,162 lbs (26,835 kg)</td>
<td>71 psi (48.9 kPa)</td>
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</tbody>
</table>

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