**Engine**
- Volvo TAD551 VE, Tier III (optional 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:**
- 173 hp @ 2200 rpm (129kW)
- 590 ft lb Torque @ 1100-1500 rpm (800Nm)

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

**Engine Controls and Instrumentation**
- 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 with shutdown protocol
- Fuel saving auto idle feature sends engine rpm to idle when control circuits are in neutral for seven seconds

**Boom**
- Two piece triangular telescoping boom
- Adjustable boom rollers with eccentric shafts
- 360° continuous boom tilt
- 75° boom pivot angle
- Auxiliary hydraulics

**Hydraulic System**
- Three hydraulic motors
  - Swing, 68 hp (51 kW)
  - Tilt, 28 hp (21 kW)
  - Propel motor, 113 hp (84 kW)

**Operating pressures:**
- Hoist 4,900 psi (331 BAR)
- Tilt 2,400 psi (165 BAR)
- Swing 4,500 psi (310 BAR)
- Tool 4,900 psi (331 BAR)
- Telescope 3,300 psi (228 BAR)
- Propel 4,900 psi (331 BAR)
- Pilot System 550 psi (38 BAR)
- Braking & Steering 2,400 psi (165 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

**Undercarriage**
- Full-time 4 x 4 drive with 2-speed Powershift transmission
- Rigid mount rear axle
- Oscillating front steer axle with automatic lock-out cylinders
- Four-wheel enclosed sealed wet-disc brakes
- Access ladders on both sides and both ends of machine
- Locking toolboxes on each side

**Maximum Travel Speed:** 11 mph (17.7 kph)

**Maximum Gradeability:** 47%

**Tires:** 16.00 x 25 (28 ply)
Dimensions

A1  Overall length (boom level) with scaling hook: 43'5" (13.2)
A2  Overall length (boom level) without scaling hook: 41'3" (12.6)
B1  Overall height (boom level): 13'8" (4.2)
C1  Width of upperstructure: 13'4" (4.1)
E   Swing clearance, rear of upperstructure: 10'0" (3.0)
F1  Top of cab guard to groundline (cab level): 13'2" (4.0)
F2  Top of cab guard to groundline (cab at full tilt): 13'6" (4.1)
FA  Cab tilt: 25°
G1  Clearance, upperstructure to groundline: 5'2" (1.6)
G2  Clearance, counterweight to groundline: 5'4" (1.6)
J2  Nominal distance between centerlines of front and rear axles: 12'6" (3.8)
K1  Width of chassis, toolboxes in inner position: 13'1" (4.0)
K2  Width of chassis, toolboxes in outer position: 13'6" (4.1)
N   Ground clearance: 14' (4.4)
V   Wheel centerline to wheel centerline: 117" (3.5)
AA  Maximum radius at groundline: 45'5" (13.8)
AB  Maximum depth: 11'0" (3.4)

AH Minimum radius at groundline: 30'4" (9.2)
AK Boom pivot to groundline: 9'4" (2.8)
AP Scaling hook tooth radius: 4'5" (1.3)
AS Attachment pivot angle: 114°
AU Maximum telescoping boom length (boom pivot to attachment pivot): 44'9" (13.6)
AV Minimum telescoping boom length (boom pivot to attachment pivot): 31'8" (9.6)
AW Telescoping boom travel: 13'1" (4.0)
AX Boom tilt angle: 360° continuous
BA Maximum radius of working equipment: 48'8" (14.8)
BB Maximum height of working equipment: 49'9" (15.1)
BD Minimum clearance of scaling tooth, with attachment pivot at maximum height: 452" (13.8)
BE Minimum clearance of scaling tooth at maximum boom height: 350" (10.7)
BG Maximum height of working equipment with boom below groundline: 144" (4.4)

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

It is Gradall Policy to continually improve its products. Therefore designs, materials and specifications are subject to change without notice and without incurring any liability on units already sold. Units shown may have optional equipment.

Weight
- Approximate working weight: 77,500 lbs (35,153 kg)

Function Forces
- Rated Boom In: 23,210 lbs (103 kN)
- Rated Boom Out: 27,357 lbs (122 kN)
- Rated Ripper: 19,888 lbs (89 kN)
- Boom Rotating Torque: 18,375 ft lbs (24,913 Nm)
- Boom Rotating Speed: 5.3 rpm