

Additional options for the Volvo VNR include:

Category	Description	Spec'd
Engine	D11 325 HP	*
	D11 355 HP	
	D11 365 HP	
	D11 385 HP	
	D11 425 HP	
	D13 405 HP	
	D13 425 HP	
	D13 435 HP	
	D13 455 HP	
	D13 500 HP	
Transmission	3000 RDS 6-Sp Allison Gen 6 w/ Prognostics, w/ PTO provision	
	4000 RDS 6-Sp Allison Gen 6 w/ Prognostics, w/ PTO provision	
	4500 RDS 5-Sp Allison Gen 6 w/ Prognostics, w/PTO	
	4500 RDS 6-Sp Allison Gen 6 w/ Prognostics, w/PTO	
	Eaton 10-Sp Fuller RTO-14908LL	
	Eaton 10-Sp Fuller RTO-16908LL	
	Eaton 11-Sp Fuller RTO-14909ALL	
	Eaton 11-Sp Fuller RTO-16909ALL	
	Eaton 13-Sp Fuller RTLO-16913A	
	Eaton 13-Sp Fuller RTLO-18913A	
	Eaton 18-Sp Fuller RTLO-16918B	
	Eaton 18-Sp Fuller RTLO-18918B	
	Volvo 12-Sp I-Shift AT2612F Direct Drive	
	Volvo 12-Sp I-Shift ATO2612F Overdrive	
	Volvo 12-Sp I-Shift Severe Duty, AT2612F Direct Drive	
	Volvo 12-Sp I-Shift Severe Duty, ATO2612F Overdrive	
Safety	Volvo 13-Sp I-Shift Severe Duty, Low Crawler / Low Rev Gear, Direct Drive	
	Volvo 13-Sp I-Shift Severe Duty, Low Crawler / Low Rev Gear, Overdrive	
	Volvo 14-Sp I-Shift Severe Duty, Ultra-Low Crawler/Ultra-Low Rev, Overdrive	
	Air Bag	
	Down view mirror over passenger door	
	Traction Control	
	Volvo Active Driver Assist	
	Blind spot detection	
	Lane Departure Warning system	
	Camera, surveillance	
	Data capture	
	Backup alarm	
	Park brake alarm	
	Security system	
Engine Equipment	Battery disconnect switch - optional	
	DEF tank - 8.7L - 18.5L, LH	
	Engine block heater	
Front Axle Equip.	Volvo VF14 14,600# Front Springs	
	Meritor MFS14122 14,600#	

	Volvo VF20 16,500#
	Volvo VF20 18,800#
	Volvo VF20 20,800#
	Multileaf or Parabolic suspension
	Drum brakes or air disc brakes optional
	Front dust shields optional
Rear Axle Equip.	Meritor MT-40-14X3D Hypoid 40,000#
	Meritor MT-40-14X4D Hypoid (Heavy Duty Housing) 40,000#
	Meritor RT46-160 46,000#
	Meritor RT46-164EH 46,000#
	Meritor RT52-185P 52,000#
	Differential locks optional
	Suspension options include Volvo T-Ride, Primaax Air, & Hendrickson
	Drum brakes spec'd, air disc brakes optional
Frame Equip.	Fuel tanks available from 50gal-125gal, LH & RH

**Please contact John Walsh at Shealy Truck Center for additional options and pricing, and be sure to mention the NCSA procurement program for preferred pricing.**



	<input type="checkbox"/> VOLVO D11	<input type="checkbox"/> VOLVO D13
<b>Ratings:</b>	325-425 hp / 1250-1550 lb-ft.	405-500 hp / 1450-1850 lb-ft.
Base Engine Configuration	4 cycle / Inline Six	4 cycle / Inline Six
Emissions	Selective Catalytic Reduction (SCR)	Selective Catalytic Reduction (SCR)
Aspiration	Sliding Nozzle Variable Geometry Turbocharger	Sliding Nozzle Variable Geometry Turbocharger
Cam / Valve Configuration	SOHC / 4 Valves per Cylinder	SOHC / 4 Valves per Cylinder
Cylinder Head	One-Piece Rigid Deck Cylinder	One-Piece Rigid Deck Cylinder
Injection System	Common-Rail	Common-Rail
Maximum Fuel Injection Pressure, psi (bar)	35,000 (2,400)	35,000 (2,400)
Rating Uprateability	Software Only, Throughout Range	Software Only, Throughout Range
Displacement, cu. in. (L)	661 (10.8)	780 (12.8)
Compression Ratio	17:1	17:1
Bore & Stroke, in. (mm)	4.84 x 5.98 (123 x 152)	5.16 x 6.22 (131 x 158)
Cylinder Spacing, in. (mm)	6.06 (154)	6.61 (168)
Full Dress Dry Weight, lb. (kg)	2259 (1025)	2605 (1182)
<b>Fuel and Lubrication:</b>		
Fuel Specification	Ultra Low Sulfur Diesel, 15 ppm	Ultra Low Sulfur Diesel, 15 ppm
Fuel Filters	Primary plus Secondary	Primary plus Secondary
Total Lube Oil Capacity, qts. (L)	38 (36)	42 (40)
Oil Filtration	Two Full Flow, One Bypass	Two Full Flow
Oil Drain Interval, Normal Service, miles (km)	60,000 (96,561)*	60,000 (96,561)*
Oil Specification	Volvo VDS-5.0, SAE 10W-30	Volvo VDS-5.0, SAE 10W-30
FLOCS Oil Drain Kit	Optional	Optional
<b>Engine Equipment:</b>		
Air Compressor, CFM	Two Cylinder, 31.8	Two Cylinder, 31.8
Retarder	Volvo Engine Brake (VEB)	Volvo Engine Brake (VEB)
Engine Brake Rating at 2200 rpm	420 hp @ 2200 rpm	500 hp @ 2200 rpm
Engine Brake Rating at 1500 rpm	266 hp @ 1500 rpm	350 hp @ 1500 rpm
Engine Brake Weight, lbs. (kg)	25 (12)	25 (12)
PTO Port for Live Rear PTO Pump or Shaft	Optional	Optional
Preheater, Electrical	Optional	Optional

\* olvo branded VDS-5.0 oil and > 6 mpg.



☐ **VOLVO I-SHIFT**  
**I-SHIFT FOR SEVERE DUTY**  
**I-SHIFT WITH CRAWLER GEARS**

☐ **EATON FULLER 13, 18-SPEED**

☐ **ALLISON 6 SPEED**  
**AUTOMATIC**

Description	Automated Manual Transmission	Automatic / Manual	Automatic
Dry Weight w/ clutch and oil cooler (lbs.)	720 or 805	541 to 716*	535 to 831
Max Torque Capacity (ft-lb) / NM()	1900 (2600)	1850 (2508)	1650 (2237)
Transmission Housing Body	Aluminum	Aluminum or Steel	Aluminum
Max Highway Weight (lbs)	160,000**	140,000**	Manufacturer approval required
Downhill economy mode	I-See	N/A	No
Software based upgrades available	Yes	No	Yes
Gear Ratios	14.94 to 41.08	14.80 to 19.72	N/A***
Forward Gears	12, 13 or 14	13 or 18	6
Reverse Gears	2 to 6	2 to 4	1

\* Without clutch housing and end yoke.

\*\* Application approval required for higher GCW.

\*\*\* Torque converter.



	<input type="checkbox"/> FLEET TRIM LEVEL	<input type="checkbox"/> EXPRESS TRIM LEVEL	<input type="checkbox"/> PREMIER TRIM LEVEL
<b>Description</b>	Our Fleet Trim Level is designed for maximum durability to withstand the wear associated with high-use applications. The Fleet Trim level is available in all VNR models.	Express Trim Level features a Heron cloth finish throughout the cab, with touches of Wren vinyl for a more refined interior. The Express Trim Level is available exclusively in VNR 300 and 400 models.	The Premier Trim Level offers luxurious options in every corner, including Wood Grain trim for the dash and cabinetry. The Premier Trim Level is available exclusively in VNR 300 and 640 models.
<b>Headliner</b>	Heron Vinyl with Dot Matrix	Heron Cloth	Heron Cloth
<b>Back Wall</b>	Heron Vinyl	Heron Cloth	Longspur Cloth with Metallic Accent
<b>Door Insert</b>	Wren Molded Plastic	Wren Vinyl	Longspur Vinyl
<b>Instrument Panel Decorative Trim</b>	Metal Hex	Metal Hex	Wood Grain
<b>Cabinet Trim</b>	Metal Hex	Metal Hex	Wood Grain
<b>Seat Options</b>	Seven	Seven	Seven
<b>Floor Insert Options</b>	Two	Two	Two

# Volvo Active Driver Assist

Our industry-leading collision avoidance system makes another leap forward. The next generation Volvo Active Driver Assist (VADA) system integrates radar and camera capabilities with a variety of on-board safety features. Now standard in all VNR models, VADA has the potential to decrease the risk of front-end and rear-end collisions by 82%. This potentially life-saving system helps drivers maintain a safe following distance and can even bring the vehicle to a complete stop in emergency braking situations.



## **Integrated Camera and Radar.**

VADA brings together two important views of the road for improved safety. The system's radar monitors up to 500 feet ahead of the driver. That data is enhanced with an onboard camera that is constantly observing the road whenever the vehicle is above 5 miles per hour.



## **Cruise auto resume.**

Should the system apply service brakes while Adaptive Cruise Control is on, the vehicle can accelerate back to the set cruising speed automatically if a safe following distance is re-established.



## **Blind spot radar.**

A radar, mounted on the passenger side of the tractor, monitors a 150-degree field of view for traffic in the adjoining lane. An audible alert and a warning light on the passenger side A-pillar indicate when a vehicle is present.



## **Heads up display.**

A collision warning light is projected as a red bar in the windshield when a vehicle or other object is too close. The driver is alerted up to 3 seconds before an impending event.

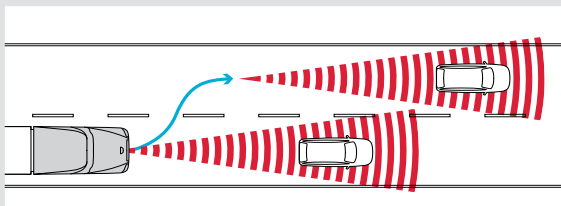


## **Lane and highway departure warning.**

Drifting off lane can cause serious accidents. The lane departure warning tracks the road markings and provides an audible alert to the driver when they are drifting into another lane of traffic or completely off the highway.

## **Automatic emergency braking.**

New to VADA is the ability to continue emergency braking as needed if the driver changes lanes to avoid initial danger.



VADA senses if there is no response after a driver is alerted of a potential impact. The system can react to reduce the throttle and disengage cruise if necessary. It may also downshift and apply both the engine brake and partial foundation brakes.