



Volvo Trucks. Driving Progress

VOLVO D13 TURBO COMPOUND

PRODUCT GUIDE



More savings for more applications

The Volvo D13 Turbo Compound engine now offers fuel savings for a wider variety of applications than ever before. Fleets that run variable load applications, including tanker, bulk haul and flat-bed deliveries, can benefit from Volvo's next generation Turbo Compound system. Regardless of whether the trailer is fully or partially loaded, an aerodynamic VNL can provide substantial savings. This D13TC is 6% more fuel-efficient than our current 2020 D13 engine. And it's up to 11% more efficient when compared to 2015 truck models.



How turbo compounding works



Energy is recaptured by the Turbo Compound unit from the engine's exhaust gas. The extra power captured by the TC is returned to the drive train. The Volvo integrated driveline then uses extreme downspeeding to maintain road speed at lower RPM, saving even more fuel.

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Improvements throughout



The enhanced system includes an updated wave piston design that offers a higher compression ratio of 18.1. Additional ball bearings have been added to the Turbocharger to reduce friction. While a new, lower viscosity oil and optimized filters increase fuel efficiency and lower maintenance costs.

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Right torque, right time



Dynamic torque integrates seamlessly with all three available drive modes: performance, economy, and extra economy.

Volvo's new Dynamic Torque software constantly monitors vehicle performance and automatically determines the optimum torque level based on load weight and road grade.

Nine engine ratings



The D13 with Turbo Compounding is available from 405-455 hp with up to 1,850 lb-ft. of torque. The engine is available in nine different ratings and can be selected in a High Torque, Economy, Adaptive Gearing or Superdirect configuration. These engines work together with the Volvo I-Shift for maximum efficiency and performance by utilizing peak torque down to 900 RPM.

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VNL options for D13 with Turbo Compounding

MODEL	DESCRIPTION	CAB TYPE
 <p>VNL 300</p>	Daycab designed to provide outstanding performance for short-haul deliveries.	Daycab
 <p>VNL 400</p>	Flat-roof sleeper designed for longer hauls requiring overnight rest to maintain hours of service compliance.	42" Sleeper
 <p>VNL 740</p>	Spacious midroof sleeper designed for hauls requiring multiple overnight stays.	70" Sleeper
 <p>VNL 760</p>	A high-rise, long-haul sleeper built to deliver reliable performance mile after mile.	70" Sleeper
 <p>VNL 860</p>	Our premium high-rise, long-haul sleeper. Providing comfort without compromise.	77" Sleeper

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Some vehicles shown with optional equipment.

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