

VOLVO XE16 FUEL EFFICIENCY PACKAGE

PROVEN FUEL EFFICIENCY FOR FLEETS REQUIRING HIGH HORSEPOWER AND TORQUE



XE16 DELIVERS EXCEPTIONAL EFFICIENCY THROUGH DRIVETRAIN INTEGRATION.

This exceptional efficiency can only be achieved with the combination of Volvo Power and the Volvo I-Shift. In a well-integrated powertrain, all the elements—engine, transmission, axle ratio and tire size—are designed to work together to provide optimum power with maximum efficiency. That's the concept behind Volvo's award-winning XE technology. With drivetrain integration, each component always knows the demand placed on the other. Constant communication allows Volvo's I-Shift transmission to control the D16 engine, rather than the other way around.

DOWNSPEEDING: THE KEY TO SAVING FUEL.

"Downspeeding" is Volvo's term for lowering engine rpm at a given vehicle speed to save fuel. The Volvo XE16 powertrain package is designed to cruise comfortably in the engine's sweet spot, reducing engine friction and increasing fuel efficiency.

A 200 RPM REDUCTION MEANS 3% BETTER FUEL EFFICIENCY.

The XE16 package consistently operates in the sweet spot of 1050 to 1500 rpm, with the most efficient range typically between 1100 to 1300 rpm.

For every 100 rpm of downspeeding, Volvo's new XE16 package can improve fuel efficiency by approximately 1.5%. Since the Volvo XE16 downspeeds the engine by 200 rpm or more, you'll realize a total fuel efficiency increase of 3% or greater. Savings are even more impressive for light loads or empty return loads.

BIG SAVINGS FOR YOUR BOTTOM LINE.

The Volvo XE16 package can save you as much as 0.2 MPG or higher. This can yield a savings of \$2,000 or more, per year, per truck.

XE16 POWERTRAIN PACKAGES FEATURE THE VOLVO D16 ENGINE.

Volvo offers two XE packages with the 16-liter Volvo D16 engine. A heavy-spec XE16 package—rated for combination weights up to 143,000 pounds—is designed specifically for heavy long combination vehicles. A lighter-spec XE16 package combines exceptional fuel efficiency with outstanding performance for five-axle tractor-semitrailer combinations up to 80,000 pounds.

Both XE16 packages deliver the full power and low-end torque needed for higher-weight applications while

saving fuel by running at a lower rpm. Fleets can count on 2050 lb-ft of torque with engine speeds as low as 1000 rpm for excellent low-rpm drivability.

XE TECHNOLOGY: RECOGNIZED BY THE INDUSTRY FOR TECHNICAL INNOVATION.

The XE13 powertrain package was named the North American trucking industry's most significant technical innovation. The 21st annual Technical Achievement Award was presented to Volvo Trucks by the Truck Writers of North America (TWNA).

XE16 REQUIREMENTS

Basic specs for the Volvo XE16 package:

- On-highway application
- Maximum GCW 80K lbs with a 40K lb rear axle
- Maximum GCW 143K lbs with a 46K lb rear axle
- Volvo D16 engine
 - 500 hp / 2050 lb-ft
- Volvo I-Shift transmission
 - Automated 12-speed
 - 0.78:1 overdrive ratio
- 6x4 with 2.64 (40K) or 3.21 (46K) axle ratio
- 22.5 low-profile tires with 495–521 rev/mile
- Includes new efficiency-optimized engine and transmission application software



VOLVO

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