

VOLVO PENTA INDUSTRIAL DIESEL

TAD761-765VE

TAD761-765VE is a powerful, reliable and economical Versatile Diesel Engine range built on the Volvo in-line six concept.

Low cost of ownership

World class fuel efficiency combined with a reliable engine aftertreatment system gives high uptime as well as low cost of ownership. No downtime for regeneration or decreased service intervals compared with current engine program.

Compact and simple installation

SCR technology selected by Volvo does not increase amount of cooling capacity needed. As optional equipment all material needed in order to install the engine can be ordered from Volvo Penta. Installation guidelines as well as drawings and CAD models are easy to access. The result is an engine and aftertreatment system that is easy to install with minor impact on existing machine layout.

Durability & low noise

Long experience with SCR systems in combination with base engine development reduces risk of downtime. Well-balanced to produce smooth and vibration-free operation with low noise

Power and torque

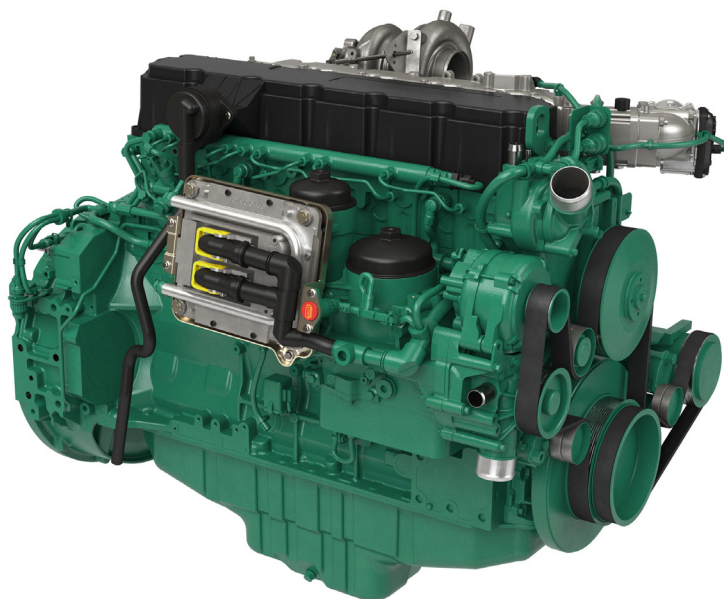
Maximum power and torque available at low rpm. As a result noise as well as fuel consumption is very low. Useful engine speed for the TAD761-765VE is due to power and torque layout very flexible.

Low exhaust emission

Efficient injection as well as robust engine design in combination with SCR technology contributes to excellent combustion and low fuel consumption. TAD761-765 VE complies with EU Stage IIIb / EPA Tier 4i emissions.

Easy service & maintenance

Easily accessible service and maintenance points contribute to the ease of service of the engine. As optional equipment possible to remote mount filters and service points.



Features & Benefits

- Low cost of ownership and operation due to SCR technology
- Proven and straight-forward design
- Compact and simple installation
- High power and torque available at low engine speed
- Complies with EU Stage IIIb / EPA Tier 4i
- Wide range of optional equipment, please see order specification

Technical description

Engine and block

- Cast iron cylinder block
- Wet, replaceable cylinder liners
- Replaceable valve guides and valve seats
- Overhead camshaft and four valves per cylinder

Lubrication system

- Full flow cartridge insert filter
- Gear type lubricating oil pump, gear driven by the transmission

Fuel system

- Common rail
- Gear driven fuel feed pump
- Fuel prefilter with water separator and water in-fuel indicator / alarm
- Fine fuel filter of cartridge, insert type
- Manual feed pump on pre filter

Cooling system

- Belt driven coolant pump with high degree of efficiency

Turbocharger

- Waste-gate controlled turbo

Electrical system

- Engine Management System 2 (EMS 2), an electronically controlled processing system which optimizes engine performance.
- The instruments and controls connect to the engine via the CAN SAE J1939 interface. Options for engine control equipment

Engine aftertreatment system

- Emission levels compliance through SCR technology
- Several DEF tanks available as options
- Possibility to offer a wide range of installation material needed

