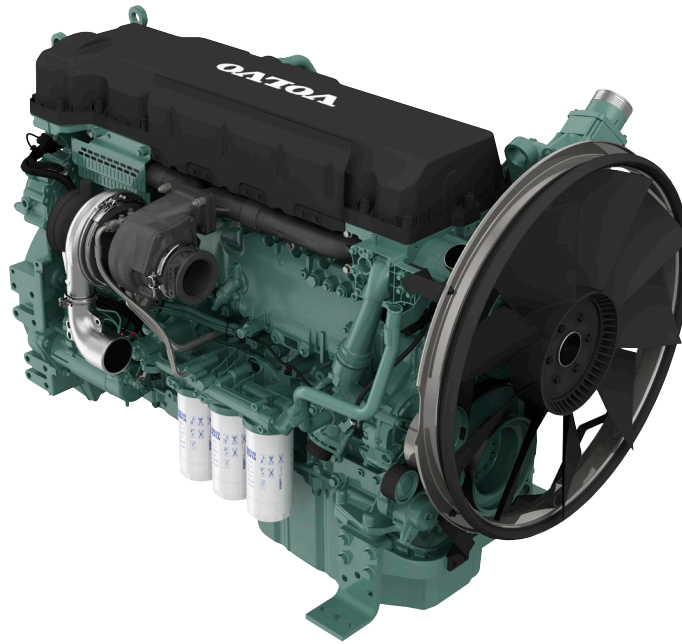


# TAD1351-1353VE

12.78 liter, in-line 6 cylinder - 285, 315 & 345 kW  
UNECE Reg 96 Power band H (equal to EU Stage IIIA)



**TAD1351-1553VE is a powerful, reliable and economical off-road Diesel Engine range built on the Volvo Group in-line six concept.**

#### Low cost of ownership

World class fuel efficiency combined with high uptime as well as low cost of ownership.

#### Compact & simple installation

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 that is easy to install.

#### Durability & low noise

Long experience with base engine development reduces risk of downtime. Well-balanced to produce smooth operation with low noise.

#### Power & 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 TAD1351-1353VE is due to power and torque layout very flexible.

#### Low exhaust emission

Efficient injection as well as robust engine design contributes to excellent combustion and low fuel consumption.

#### 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.

- Proven and straight-forward design - built on Volvo Group technology
- Low cost of ownership and operation
- High power and torque already at low engine speed
- Compact, simple installation and easy to service
- Similar engine footprint for all emission standards
- High sulfur-in-fuel tolerance
- Wide range of optional equipment

	TAD1351VE	TAD1352VE	TAD1353VE
Power output, kW/hp	285/388	315/428	345/469
at speed, rpm	1900	1900	1900
Max. torque, Nm/lb/ft	1965/1449	2175/1604	2380/1785
at speed, rpm	1200	1200	1200

# TAD1351-1353VE

12.78 liter, in-line 6 cylinder - 285, 315 & 245 kW

UNECE Reg 96 Power band H (equal to EU Stage IIIA)

## Technical data

Configuration and no. of cylinders .....in-line 6  
Displacement, l (in<sup>3</sup>) ..... 12.78 (780)  
Method of operation .....4-stroke  
Direction of rotation (viewed towards flywheel).....anti-clockwise  
Bore, mm (in.) ..... 131 (5.16)  
Stroke, mm (in.) ..... 158 (6.22)  
Compression ratio .....17.8:1  
Dry weight, engine only, kg (lb) .....1276 (2813)

## 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 disposable spin-on oil filter, for extra high filtration
- Gear type lubricating oil pump, gear driven by the transmission
- Oil level sensor at startup

### Fuel system

- Electronic high pressure unit injectors
- Fuel prefilter with water separator and water-in-fuel indicator / alarm
- Gear driven low-pressure fuel pump
- Fine fuel filter with manual feed pump and fuel pressure switch

### Cooling system

- Available as power pack or base engine.
- Belt driven coolant pump with high degree of efficiency

### Turbo charger

- Electronically controlled Waste-gate

### Electrical system

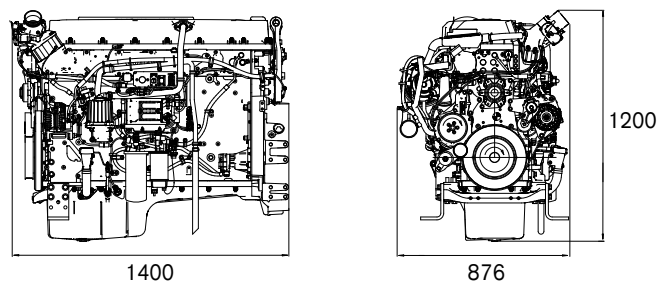
- Engine Management System (EMS) 2.3, an electronically controlled processing system which optimizes engine performance. It also includes advanced features for diagnostics and fault tracing.
- The instruments and controls connect to the engine via the CAN SAE J1939 interface. Options available for engine control equipment.

### Exhaust reduction system

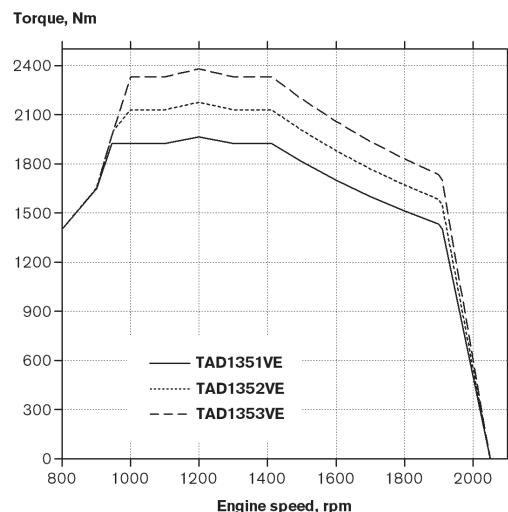
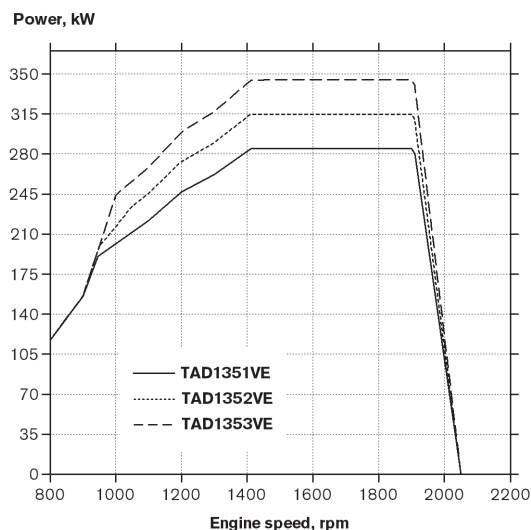
- Without internal EGR

## Dimensions

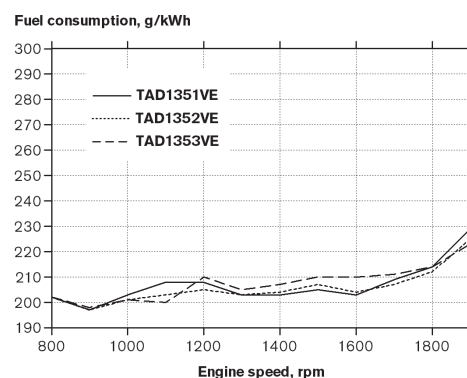
Not for installation. Dimensions in mm.



## Characteristics



## Fuel consumption



### Power standards

The engine performance corresponds to ISO 3046, BS 5514 and DIN 6271. The technical data applies to an engine without cooling fan and operating on a fuel with calorific value of 42.7 MJ/kg (18360 BTU/lb) and a density of 0.84 kg/liter (7.01 lb/US gal, 8.42 lb/Imp gal), also where this involves a deviation from the standards.

### Additional information

For additional information, please contact your Volvo Penta representative or visit [www.volvopenta.com](http://www.volvopenta.com).

### AB Volvo Penta

SE-405 08 Göteborg, Sweden  
[www.volvopenta.com](http://www.volvopenta.com)

Not all models, standard equipment and accessories are available in all countries. All specifications are subject to change without notice.

The engine illustrated may not be entirely identical to production standard engines.