TAD1180-1183VE

10.84 liter, in-line 6 cylinder - 235, 265, 285 and 315 kW
EU Stage V

Technical data

Configuration and no. of cylinders ..... in-line 6
Displacement, l (in³) 10.84 (661)
Method of operation 4-stroke
Bore, mm (in.) 123 (4.84)
Stroke, mm (in.) 152 (5.98)
Wet weight *), engine only, kg (lb) 1111 (2449)
Compression ratio 16.9:1
Direction of rotation (viewed towards flywheel) ..... counterclockwise

*) The engine is weighed with components that consist of the minimum running weight including standard flywheel and excluding cooling package, hoses and air filters.

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

- Electronically controlled common rail injectors
- Fuel pre filter 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 valve

Cooling system

- Belt driven two speed coolant pump with high degree of efficiency
- Fan and fan ring available as option

Electrical system

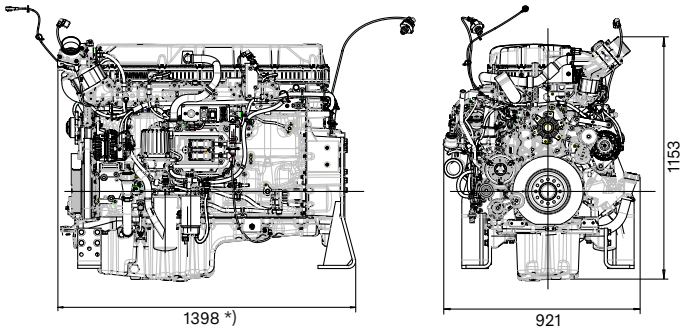
- Engine Management System (EMS) 2.4, includes advanced features for diagnostics and fault tracing.
- The instruments and controls connect to the engine via the CAN SAE J1939 interface. Options available for engine control equipment.

Exhaust after treatment system

- SCR, DPF+ DOC and uncooled EGR
- Airless urea injection
- Wide range of options available, including different sized AUS/ DEF tanks (also possible for OEM to design own tank).
- AUS/DEF Quality Level Temperature Sensor

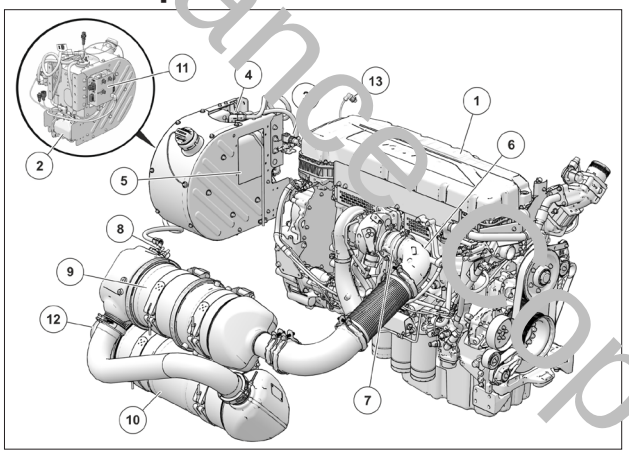
Dimensions

Not for installation. Dimensions in mm.



*) TAD1183VE includes an extra torsional vibration damper

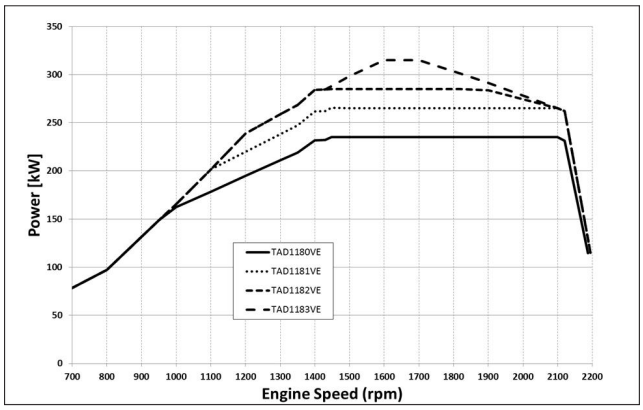
Main components

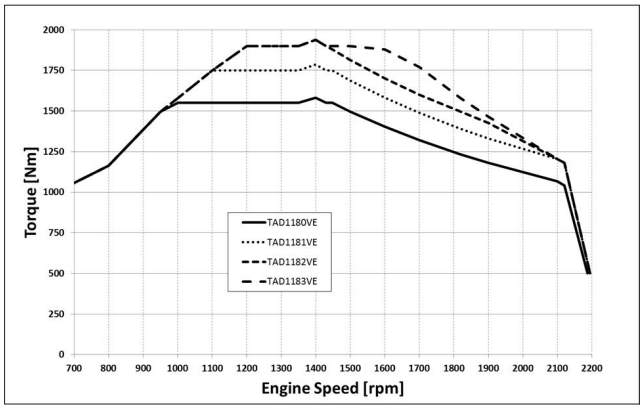


1. Engine with common rail fuel injection
2. AdBlue Pump Unit
3. Solenoid Valve, heating
4. Tank armature with sensors and heater
5. AdBlue tank, heated
6. NOx Sensor
7. Electrical Exhaust Pressure Governor
8. Dosage Valve
9. Diesel particular filter
10. Muffler with Catalytic Converter
11. After treatment Control Module (ACM)
12. NOx Sensor
13. Air inlet Temperature Sensor and pressure sensor

All necessary components are available in various lengths and sizes, cables, heated hoses and tanks. A complete system.

Characteristics





Please note that products illustrated may differ from production models.

Not all models and accessories are available in all markets, and standard equipment may vary between different markets. Every effort has been made to ensure that facts and figures are correct at the time of publication. However, Volvo Penta reserves the right to make changes without prior notice at any time.

AB Volvo Penta
SE-405 08 Göteborg, Sweden
www.volvopenta.com