VOLVO PENTA

MEETING TIER 4 FINAL DEMANDS

Product Guide

Simple.

Volvo Penta's strategy to meet the Tier 4F emission demands is to keep it simple for the manufacturers. By using proven SCR technology with a light EGR system, installation challenges for the manufacturers will be reduced, no regeneration is needed and operation costs are low.

Easier Installations

An engine with the Volvo Penta SCR system typically has a lower cooling demand than an engine with other after-treatment technologies. Lower cooling demands translates to lower noise levels and minimized costs for the radiator package. This enables manufacturers to house the cooling system in installations where space is limited.

NO DPF
NO DOC
NO REGEN

Maximized Power Output

The Volvo Advanced Combustion Technology and the SCR system turn more fuel energy into mechanical power – which leads to better fuel economy and lower heat rejection – meaning that the power output can be maximized for any given engine displacement. The result is smaller engine sizes, reduced costs, and simplified installations.

Reduced Overall Costs

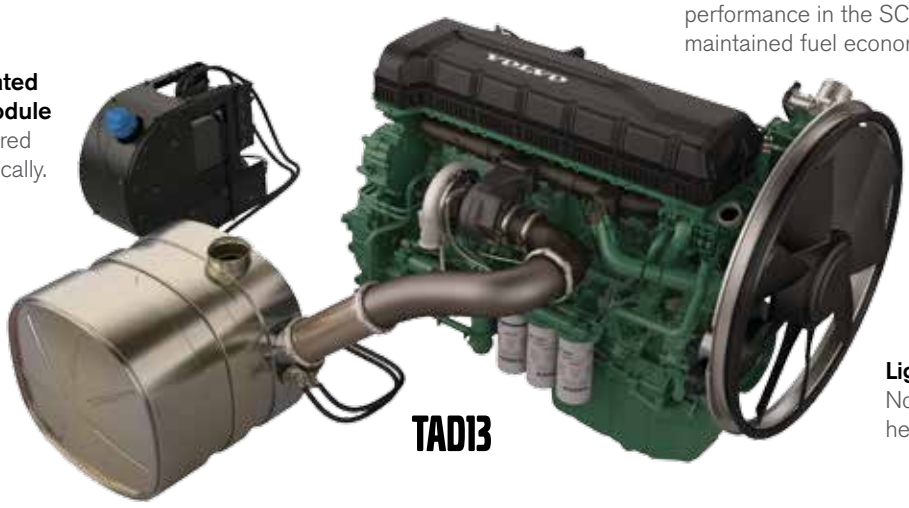
For end users, the principal benefits of the SCR engines start with unsurpassed fuel efficiency that cuts operating costs. With the SCR system, where the catalytic converter is designed to last the life of the engine, costs for maintenance and downtime are also reduced.

DEF Injector
Strategically placed, the injector ensures that DEF is efficiently injected into the catalyst - greatly reducing the risk of crystallization.

NOx Sensor
Two NOx sensors combined with ambient temperature sensing optimizes the usage of DEF.

Temperature Control System
Heat management with a unique throttle arrangement reduces excess air flow and increases the exhaust gas temperature in low load conditions. This improves emission performance in the SCR catalyst with maintained fuel economy.

DEF Tank with Integrated Pump and Control Module
The DEF pump is powered and controlled electronically.



Catalyst and Silencer in One
No regeneration needed.

Light EGR
No increased heat rejection.

TAD5 & 8

TAD11

TAD16

SCR & DEF Tank Options
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Reliable.

Uptime is crucial to your business. Our knowledge about end users' operations and an on-going dialogue with our partners, allows us to make engines that are adapted to the demands and challenges of each application. The supreme quality of Volvo Penta engines, the proven technology with no regeneration, and the same or longer service intervals are also primary benefits. When downtime does occur, you can rely on rapid support from Volvo Penta and our service dealers.

You know the importance of engine performance in the success of your product and so do we. At Volvo Penta, we understand that the most important part of providing you with a successful partnership experience is delivering outstanding support that you can depend on.

Global Aftermarket Support

The quality and reliability of Volvo Penta engines, combined with quick and qualified service and support from our global service dealer network – and world-class parts distribution – give you a solid foundation for optimal uptime and cost of ownership.

Volvo Penta Action Service 24/7

Volvo Penta Action Service, our phone-based support service, provides 24-hour assistance every day of the year. If you experience a breakdown, just call. The operator will support you throughout the issue and keep you updated on its status and progress. Whenever on-site assistance or technical support is needed, the operator will put you in contact with the nearest Volvo Penta dealer with the right qualifications.

Five Point Support Commitment

Our Volvo Penta 5-Point Support Commitment is a proof point of our dedication to you.

- Provide contact telephone number with 24/7 response
- Respond to end user calls within 1 hour of notification
- Be on site within 24 hours of notification
- 24/7 on-demand Volvo Penta dealer technical support availability
- 24 hour or less critical parts availability

Stage IV / Tier 4F Engine Range

	MAXIMUM POWER			PRIME	STANDBY	PEAK TORQUE						
Engine	kW	Hp	rpm	kWe	kWe	Nm	rpm	Displ. Litres	Length mm	Width mm	Height mm	Dry weight kg
TAD570VE	105	141	2300	–	–	710	1200	5.1	982	864	992	556
TAD571VE/GE	129	173	2300	93	104	810	1200	5.1	982	864	992	556
TAD572VE/GE	160	214	2300	119	132	910	1450	5.1	982	864	992	556
TAD870VE	160	214	2200	–	–	1060	1200	7.7	1207	889	1006	696
TAD871VE/GE	185	248	2200	141	156	1160	1200	7.7	1207	889	1006	696
TAD872VE/GE	210	282	2200	161	179	1235	1350	7.7	1207	889	1006	696
TAD873VE/GE	235	315	2200	182	202	1310	1450	7.7	1207	889	1006	696
TAD1170VE/GE	235	315	2100	185	206	1581	1260	10.8	1309	913	1227	1041
TAD1171VE/GE	265	355	2100	210	234	1750	1260	10.8	1309	913	1227	1041
TAD1172VE	285	382	1700	–	–	1938	1250	10.8	1309	913	1227	1041
TAD1371VE/GE	285	382	1900	229	254	1965	1200	12.8	1400	876	1200	1267
TAD1372VE/GE	315	416	1900	254	282	2175	1200	12.8	1400	876	1200	1267
TAD1373VE/GE	345	462	1900	279	310	2380	1200	12.8	1400	876	1200	1267
TAD1374VE/GE	375	502	1900	304	338	2595	1200	12.8	1400	876	1200	1267
TAD1375VE/GE	405	543	1900	329	365	2650	1200	12.8	1400	876	1200	1267
TAD1670VE/GE	405	543	1900	331	368	2750	1260	16.1	1490	894	1351	1322
TAD1671VE/GE	450	603	1900	369	410	2900	1260	16.1	1490	894	1351	1322
TAD1672VE/GE	515	690	1800	424	471	3200	1260	16.1	1490	894	1351	1322

60 Hz/1800 rpm

	PRIME POWER			STANDBY			GENERATOR EFF.
Engine	kWm	kWe	kVA	kWm	kWe	kVA	(%)
TWD1672GE	532	508	635	585	559	698	95.5%
TWD1673GE	595	570	713	655	625	781	95.5%

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Volvo Penta of the Americas
www.volvopenta.us