

SCANIA ENGINES – IMO TIER III RANGE

Taking the lead in environmental performance.



Adding sustainable value to your business.

Proven technology with heritage.

With the starting point in our customers' needs, we have designed and built state-of-the-art diesel engines for more than a century. Our engineers have always realised that real power is only achievable with the corresponding level of dependability, fuel efficiency, emission control and operating economy. Therefore, you can always count on that industry-leading expertise and professional advice is included in our offer.

Environmental excellence.

The new IMO Tier III marine engine platform includes powerful 13- and 16-litre benchmark engines operating with minimum environmental footprint. Designed for both propulsion and auxiliary applications, every one of them is powered for sustainable performance, safety and uptime. Together with optimised transmissions, cooling systems and exhaust aftertreatment systems, our new IMO Tier III engines represent the environmental edge of the Scania marine solution.






POWER AT WORK

Multipurpose cargo vessel Abis Dover,
powered by six Scania V8 marine engines,
North Sea

POWER AT WORK

Passenger ferry Silverpilen, powered by two Scania 13-litre marine engines, Baltic Sea

An aerial photograph of the passenger ferry Silverpilen, a white vessel with a green deck and yellow accents, moving through dark blue water. The ferry is viewed from an elevated rear-quarter perspective, showing its wake and the name 'SILVERPILEN' on the stern. A white line originates from the text block and points to the deck area of the ferry.

Greener marine engines at unparalleled operating economy.

For cleaner waters.

Today's Scania marine solution is the result of many years' development to reduce environmental impact. This evolution has led to a pioneering leap towards cleaner, longer-lasting and more fuel-efficient engines with uncompromising power and torque. The IMO Tier III engine range is the latest addition to the Scania marine engine platform. The new IMO Tier III standard applies to vessels launched from 1 January 2016 in IMO Emission Control Areas (ECA), such as American, Canadian and Caribbean waters. Operators sailing in other environmentally sensitive waters, such as coastal areas and inland waterways, can utilise the environmental performance of Scania's IMO Tier III engine range. The new standard will gradually be adopted in other areas up to year 2020.

Substantial emission reduction.

The new IMO Tier III standard states a cut of NO_x emissions by more than 70% and, since all Scania IMO Tier III engines can run entirely on HVO fuel, CO₂ emissions are reduced by up to 90%. Also, this is the first marine engine range equipped with aftertreatment systems.

Proven technology.

Scania SCR (selective catalytic reduction) is an in-house-built aftertreatment system used in many other applications. Now introduced in our IMO Tier III engines, the system ensures that exhaust gases are released with minimum nitrogen oxide (NO_x) content. AdBlue/DEF (diesel exhaust fuel), a urea-based additive, is injected into the exhaust and a chemical reaction converts the toxic nitrogen oxides into harmless water and nitrogen gas. Scania SCR is reliable, easy to handle, and does not affect torque and power output.

Reliable environmental performance for every application.

Power for displacement vessels.

Scania's solid record of outstanding fuel economy, proven reliability and high uptime is even more reinforced with the new IMO Tier III engine range, delivering unparalleled operating economy for displacement vessels. Furthermore, the prompt engine response and uncompromising low-rev performance enhances acceleration while significantly reducing the nitrogen oxide emissions.

Optimised propulsion system.

Pushing a displacement hull through the water is a tough job, especially when fighting upstream or against the waves. And fuel consumption must be kept as low as possible. The Scania marine engines are renowned for industry-leading

fuel efficiency irrespective of emission standard, and a given choice for anyone who seeks to optimise fuel economy without compromising performance.

Ideal for auxiliary applications.

With proven reliability, fuel efficiency and operating economy, the new IMO Tier III diesel engines are perfectly fitted for heavy-duty auxiliary use, like for instance water pumps, fire fighting equipment and cranes. Compact design, unlimited adaptability and standard interfaces allow easy installation and seamless integration irrespective of application.

Power at work, from day one.

Marine range for IMO Tier III emission regulation level.

Engine type	Output		Rating	Cooling type
	kW (hp)	r/min		
Propulsion				
DI13 092M	257 (350)	1,800	ICFN	HE/KE*
DI13 092M	294 (400)	1,800	ICFN	HE/KE*
DI13 092M	331 (450)	1,800	ICFN	HE/KE*
DI13 092M	368 (500)	1,800	ICFN	HE/KE*
DI13 092M	405 (550)	1,800	ICFN	HE/KE*
Auxiliary				
DI13 091M	269/285	1,500/1,800	PRP	HE/KE*
DI13 091M	285/323	1,500/1,800	PRP	HE/KE*
DI13 091M	323/374	1,500/1,800	PRP	HE/KE*
DI13 091M	374/426	1,500/1,800	PRP	HE/KE*
DI13 091M	426	1,500/1,800	PRP	HE/KE*
DI16 091M	430/468	1,500/1,800	PRP	HE/KE*
DI16 091M	450/511	1,500/1,800	PRP	HE/KE*
DI16 091M	480/553	1,500/1,800	PRP	HE/KE*
DI16 091M	480/596	1,500/1,800	PRP	HE/KE*

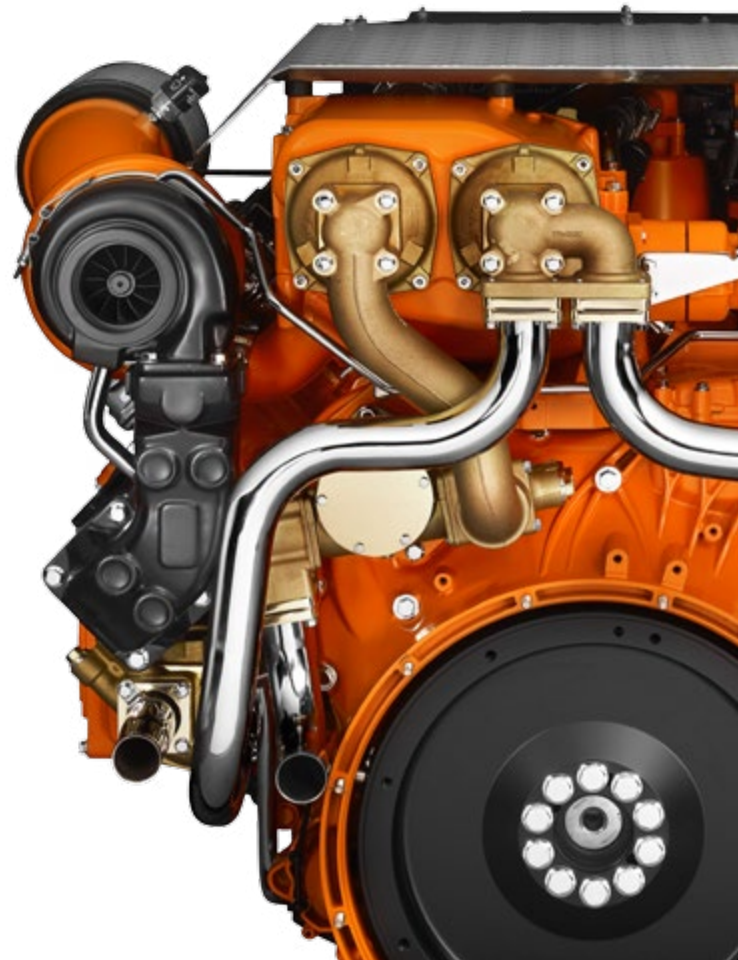
* HE, heat exchanger in a closed circuit. KE, keel-cooling with two circuit cooling

ICFN

Continuous service: rated output available 1/1 h. Unlimited h/year service time at a load factor of 100%.

PRP – Prime power

For continuous operation and unlimited yearly operation at varying load. Max mean load factor of 70% of rated power over 24 h of operation. 1 h/12 h of accumulated peak overload to 110%.



Scania pursues an active policy of product development and improvement. For this reason, Scania reserves the right to make changes relating to design and specification, its products and services and any information without prior notice. Furthermore, due to national or EU legal requirements, some products and services may not be available in all markets. For further information in these respects, please contact your local dealer or visit www.scania.com.

