



YANMAR

Information

New High-Powered Industrial Engine 4TN107

Certification Acquired for EU Stage V

Emission Standards



4TN107FTT two-stage turbo engine

Osaka, Japan (April 4, 2019) - This year, Yanmar Co., Ltd will begin mass production of two new high-powered industrial engines - the 4TN107FHT and 4TN107TT. On March 11, these engines acquired certification for the new EU Stage V off-road emission standards, which will come into effect from 2020.

Both of these engines will be exhibited from April 8-14 at BAUMA 2019, an international construction machinery trade fair held in Munich.

■ Overview of EU Stage V off-road emission standards

•EU Stage V off-road emission standards are new European emission regulations which apply to engines installed in off-road vehicles. The regulations will be phased-in during 2019 and 2020 according to the category (power) of the engine. Under Stage V, diesel engines less than 19kW, which were previously unregulated, will now fall under the scope of the

regulations.

- For engines of 19kW and above, the NOx^{*1} and PM^{*2} requirements will become stricter, and new PN^{*3} requirements have also been adopted, making Stage V currently the most stringent emission regulations in the world.
- Depending on the engine category, new engine control technology will be required to limit the operation of the engine in the event that failure or unauthorized modification occurs to parts related to the control of emissions during operation in the market.

■ About “BAUMA 2019”

- Exhibition booth

Hall A4, Stand 425

- Engines to be exhibited

4TN107FHT (single turbo) Displacement: 4.6L, Power: 90-110 kW

4TN107FTT (two-stage turbo) Displacement: 4.6L, Power: 127-155 kW

Announcement of Yanmar’s participation at “BAUMA 2019”

<https://www.yanmar.com/global/engine/news/2019/01/28/50402.html>

*1 NOx: Collective term for nitrogen oxides such as nitrogen monoxide (NO) and nitrogen dioxide (NO₂).

*2 PM: Particulate Matter. Refers to suspended particulate matter such as soot, etc.

*3 PN: Particulate Number. It is a regulation on the number of particles contained within a certain amount of emissions and is separate from the PM regulation which regulates the mass of particulate matter.

<About Yanmar>

With beginnings in Osaka, Japan, in 1912, Yanmar was the first to succeed in making a compact diesel engine of a practical size in 1933. Then, with industrial diesel engines as the cornerstone of its enterprise, Yanmar has continued to expand its product range, services, and expertise to deliver total solutions as an industrial equipment manufacturer. As a provider of small and large engines, agricultural machinery and facilities, construction equipment, energy systems, marine equipment, machine tools, and components, Yanmar’s global business operations span seven domains.

On land, at sea, and in the city, Yanmar's mission of "providing sustainable solutions focused on the challenges customers face, in food production and harnessing power, thereby enriching people's lives for all our tomorrows" is a testament to Yanmar's determination to provide us with "A Sustainable Future."

For more details, please visit the official website of Yanmar Co., Ltd.:
<https://www.yanmar.com/global/about/>

<NOTE>

The contents of this news release reflect what was mentioned in the press announcement. Please be aware that the contents of this release may differ with new information and developments.
