

The Vermeer TR626 is Vermeer Freeman's largest trommel screen and is capable of producing up to 152 cubic meters (200 cubic yards) of material per hour.



SORTING IT OUT

Vermeer Freeman meets emissions by powering the TR626 trommel screen with a Final Tier 4/Stage IV engine

Vermeer trommel screens are taking an environmental turn for the better with the launch of a revamped TR626 that now meets the latest emissions standards.

Manufactured by Vermeer Freeman in South Dakota, the Vermeer TR626 trommel screen has long been the company's largest and perhaps the most popular. It can be set up in as little as 15 minutes and can process up to 152 cubic meters (200 cubic yards) per hour, turning organic waste material into quality salable products such as wood chips, compost, and topsoil.

Vermeer Freeman isn't new to John Deere power. The company began powering its machines with PowerTech 4.5L engines seven years ago under the trade name

Wildcat. "The 4045 has been a rock-solid engine for us," says Scott Eberts, general manager for Vermeer Freeman. "Its fuel economy and power are something we and our customers like in an engine. We have a number of machines with multiple years and a lot of hours on them."

In the recent move to meet Final Tier 4/Stage IV emissions, Vermeer Freeman manufactured a prototype TR626 last fall with a PowerTech PWL 4.5L engine. The PowerTech PWL 4.5L engine meets the latest tier of emissions without a diesel particulate filter (DPF), reducing the package size, service requirements, and cost.

Eberts says while the PowerTech PWL 4.5L engine is taller than the previous John Deere 4.5L engines, the overall footprint of

the power unit remained the same, "minimizing the work to implement the Final Tier 4 engine."

With the new engine also came some improvements in performance and efficiency. Eberts says transitioning to the new Final Tier 4/Stage IV engine increased the horsepower from 93 kW (125 hp) to 100 kW (134 hp) — an increase that Eberts says will be well-received.

Vermeer Freeman also added a new integrated control system to help operators optimize the performance of the machine. In addition, there's also a handheld radio control that will allow operators to monitor and control the trommel screen from a distance. "With the control system, operators are able to monitor the engine load and



The CT616 is a towable, self-powered compost turner that will soon aerate material with a PowerTech PSS 9.0L Final Tier 4/Stage IV engine.



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fuel usage, and have the ability to fine-tune the operation to their needs," he explains.

The TR626 is among several Vermeer products to become Final Tier 4/Stage IV compliant. John Deere Final Tier 4/Stage IV engines also power several other Vermeer machines manufactured at Vermeer headquarters in Pella, Iowa, including the R400T mud recycler, as well as the T655 and T755 track trenchers.

Soon, Vermeer Freeman will power its Vermeer CT616 compost turner with a PowerTech PSS 9.0L engine. The CT616 is a towable, self-powered compost turner that aerates material to increase the speed of composting. The CT616 can turn a windrow 1.8 meters (6 feet) high by 4.9 meters (16 feet) wide. "There's no comparable machine

like it," says Eberts. "There are some compost turners that are larger and smaller, but the CT616 has a market niche all of its own."

Over the years, Vermeer has relied on the technical assistance and expertise of Northstar Power to meet emissions standards. In fact, the John Deere engine distributor supplied John Deere engines to Wildcat Manufacturing years before Vermeer acquired the company in 2009.

"We have a really good relationship with Northstar Power," says Eberts. "Our engineering teams work well together. They know our applications and know what we need."

Because Vermeer is a global company, it relies on the worldwide network of

John Deere dealers to service and support its customers, says Eberts.

"We have customers that run a lot of hours every day, and the machine needs to run. They want to know service is available, and we are going to partner with companies that will help us take care of customers around the world. That's what we are going to get with John Deere power."

 **Distributor: Northstar Power LLC in Ankeny, Iowa; www.northstarpowerllc.com**