

Volvo/Westport Joint Venture High Pressure Direct Injection (HPDI™) Fuel System

IMAGE #1



Caption: The HPDI™ Fuel System is a fully integrated “tank to tip” solution that allows an IC engine to run on hydrogen or a range of low-carbon renewable fuels, preserving current diesel engine architecture and engine manufacturing infrastructure, leveraging existing economies of scale.

IMAGE: VOLVO/WESTPORT JV

IMAGE #2



Caption: At the heart of the HPDI™ Fuel System is a revolutionary patented injector with a dual concentric needle design that delivers small quantities of diesel fuel and large quantities of natural gas, at high pressure, to the combustion chamber. The natural gas is injected at the end of the compression stroke. Launched in 2024, the Volvo FH Aero gas-powered is a long-haul truck shaped for aerodynamic efficiency.

IMAGE: VOLVO TRUCKS

(more)

IMAGE #3



Caption: The Volvo FH Aero gas-powered was launched IN 2024. It brings performance and productivity like a diesel-powered truck and sufficient range for long-haul transport. The HPDI™-equipped Volvo FH truck can reduce CO₂ emissions by up to 100 percent. This is calculated from tank to wheel when using bio-LNG and HVO, compared to a truck using European standard diesel.

IMAGE: VOLVO TRUCKS

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About Westport Fuel Systems

At Westport, we are driving innovation to power a cleaner tomorrow. We are a leading supplier of advanced fuel delivery components and systems for clean, low-carbon fuels such as natural gas, renewable natural gas, propane, and hydrogen to the global transportation industry. Our technology delivers the performance and fuel efficiency required by transportation applications and the environmental benefits that address climate change and urban air quality challenges. Headquartered in Vancouver, Canada, with operations in Europe, Asia, North America, and South America, we serve our customers in more than 70 countries with leading global transportation brands. At Westport, we think ahead. For more information, visit www.wfsinc.com.

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