News Release

Rehlko KDI Engine Range: Leading the Way in Bharat Stage V Compliance at Bauma CONEXPO INDIA 2024

Greater Noida, India – December 11th, 2024 – Rehlko Engines (formerly Kohler) showcases its Bharat Stage V–certified KDI engine range at bauma CONEXPO INDIA 2024, the 7th International Trade Fair for Construction Machinery, Building Material Machines, Mining Machines, and Construction Vehicles. The KDI range, known for its robust performance and compliance with stringent emission standards, is a focal point for OEMs seeking versatile, globally compliant solutions.

The KDI engine family meets Bharat Stage V emission standards, having achieved both CEV Stage-V certification for Construction Equipment Vehicles and Trem Stage-V certification for Agricultural Tractors and other machinery. The lineup includes the KDI-TC 1903 (19–37 kW) and the KDI-TCR 1903 and KDI-TCR 2504 (37–56 kW) models. With dual certification for EU Stage V and Bharat Stage V, OEMs can streamline production processes by utilizing a unified engine model for domestic and export markets. The KDI engines are also certified to meet other key global emission standards, including US Tier 4 Final, China Stage IV, and Korea Stage V.

Adapting to India's evolving emissions landscape, Rehlko has integrated advanced aftertreatment solutions that maintain engine performance across diverse operating conditions and duty cycles. The KDI range exemplifies a compact engineering approach, reducing the need for extensive re-engineering while delivering performance enhancements. Notably, the platform's DPF technology improves fuel efficiency, minimizes maintenance, and supports optimal machine uptime.

Comprehensive Compliance and Performance

The Bharat Stage V-compliant KDI engines are now in series production, readily available for OEMs to develop machines that meet the latest regulatory requirements. Designed to facilitate a seamless transition to these new standards, the KDI range offers OEMs a cost-competitive and high-performing platform suited for global markets.

Since its launch in 2012, the KDI range has established itself in over 500 applications worldwide, spanning industries such as construction, agriculture, material handling, and power generation. With over 350,000 units produced and more than 1 billion operational hours logged, the KDI platform demonstrates reliability and adaptability in demanding environments.

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Innovative Emission Control with Rehlko Flex™

Rehlko Flex™ is a versatile emission control technology that provides OEMs with a standardized engine platform, adaptable to various global emission standards. By leveraging a consistent engine base, OEMs can select from different aftertreatment system configurations to meet specific market requirements, reducing production complexity and costs.

For regions with stringent emission standards like the EU and Bharat Stage V, Rehlko Flex™ integrates a diesel oxidation catalyst (DOC) and diesel particulate filter (DPF), effectively reducing pollutants and particulate matter. In North America, a DOC-only solution is available, while in less regulated markets, engines can operate without aftertreatment, offering a simple, cost-effective option.

Rehlko Flex™ enhances fuel efficiency and uptime with smart DPF regeneration management, ensuring optimal machine performance even under low load conditions. The DPF system includes a lifelong ash-cleaning interval, reducing maintenance needs, while its temperature-controlled regeneration prevents overheating and ensures durability.

Additionally, Rehlko Flex™ offers installation flexibility, with the option to position the aftertreatment system on or off the engine. Its 360-degree rotation capability for inlet and outlet pipes ensures seamless integration across various machine designs.

This flexible, global solution enables OEMs to meet diverse emission requirements with a single engine platform, optimizing both performance and total cost of ownership.

“Best Fit” Design Philosophy

The KDI range emphasizes a “Best Fit” approach, delivering high power density and low-end torque within a compact footprint. Features such as four power take-offs (PTOs), including front and side auxiliary PTOs, simplify integration into machinery while enhancing operational flexibility. The advanced twin-vortex combustion chamber and common-rail system ensure clean combustion, minimizing aftertreatment dimensions and requirements.

With performance comparable to larger engines, high low-end torque, and best-in-class torque and power density, the KDI ensures immediate engine response to load even at low speeds, maximizing productivity.

Optimized Total Cost of Ownership

In terms of total cost of ownership (TCO), the KDI sets an efficiency benchmark with the lowest fuel consumption in its segment at 210 g/kWh. Extended maintenance service intervals, up to 1000 hours for filters and oil changes, and a 2000-hour interval for cooling-fan and alternator poly-V belt replacement, highlight its economic advantages. Hydraulic lash adjusters eliminate valve adjustment needs, and the compact design simplifies machine maintenance and integration.

Enhanced Customer Support and Diagnostics

Rehlko supports OEMs and end-users with advanced diagnostic tools such as Rehlko Integrated Remote Analytics (KIRA) and the Rehlko CheckApp. These tools provide real-time performance monitoring, remote diagnostics, and tailored maintenance recommendations, enhancing overall engine management and reducing downtime.

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About Rehlko engines

With a century-long legacy of innovation, Rehlko stands as a trusted leader in engine manufacturing, renowned for delivering reliable and efficient power solutions. The company designs, builds, and maintains a comprehensive range of diesel, gasoline, hybrid and alternative fuels engines up to 140 hp of power – adopted globally by machine and equipment manufacturers in the most important sectors of industry (construction, earth-moving, agriculture, generators and landscaping). Formerly operating under the Kohler brand, the company has now rebranded under its new corporate name Rehlko to embrace its future as an independent entity, while maintaining its commitment to the same high standards of quality, innovation, and service.

A global leader in energy resilience, Rehlko delivers innovative energy solutions critical to sustain and improve life across home energy, industrial energy systems, and powertrain technologies, by delivering control, resilience and innovation. Its portfolio of businesses includes Engines, Power Systems, Home Energy, Uninterruptible Power, Clarke Energy, Heila Technologies and Curtis Instruments.

For more details, please visit Engines.Rehlko.com.

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