News Release

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Kohler Demo Days 2023

Reggio Emilia, June 20, 2023 – Inside the historic Reggio Emilia plant, Italy's home for diesel engine production, Kohler Engines is hosting the first edition of Demo Days, a new event format dedicated to the trade press.

Divided into two days, one for the Italian press and one for the European media, the event is intended to be an ode to the ongoing support of the press, an exclusive meeting that seamlessly blends professionalism and emotional resonance. Demo Days allows journalists to walk through the doors of Kohler, assimilating its history, touching its engines firsthand, and enjoying its performance thanks to the machines of those who have chosen Kohler Engines as their supplier.

Embodying the very essence of the brand, the event's unique format shines the spotlight on the real protagonists, Kohler Engines. Engines once again become the vibrant storytellers of a more than century-long history of passion and know-how, telling how they have revolutionized the work of operators.

Kohler engines have crossed continents and conquered horizons, garnering the unwavering trust of those who have chosen them. The customers' stories are the focus of this gathering, a testament to the transformative power of Kohler engines. The stories of how combining their machines with Kohler engines becomes the lifeblood that fuels their results, delivering unparalleled power, efficiency and reliability.

Demo Days encapsulates Kohler's commitment to investing in a diverse energy future, providing diverse solutions that meet different customer needs, and showcasing stories of some of the many customers who have chosen Kohler for exceptional quality, performance, and economic and environmental sustainability.

"The growth that Kohler Engines has experienced in recent years is the result of tremendous work and close collaboration that has led our customers to becoming true partners, with whom to strengthen value propositions and gain access to different market segments, and to sharing resources such as expertise and infrastructure. Demo Days was designed precisely with this intent," comments Nino De Giglio, Director of Marketing Communications & Channel Management, Kohler Engines.

Kohler is proud to have embarked on this extraordinary journey with its customers, and to finally share it with its trusted press through a dedicated event.

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Avant Tecno

The collaboration between Avant Tecno, a well-known Finnish manufacturer of multi-purpose compact loaders, and Kohler began about 15 years ago to power the Avant 200 multi-purpose loader for both the European and North American markets with a CV20S engine (20.5HP gasoline V-Twin with vertical shaft).

At the time, Avant had chosen Kohler gasoline engines for reliability, power and efficiency, features that can give the compact loaders excellent performance, enabling operators to work efficiently and comfortably. With the introduction of Stage 3B / EPA T4F, Avant began equipping its larger wheel loaders such as the 760i with the Kohler Diesel KDI 1903TCR engine with DOC creating a product that was very successful in the market. Then, with the advent of Stage V regulations in Europe, Avant equipped its larger multi-purpose loaders with the Kohler Diesel KDI 1903TCR engine with DOC and DPF, which also proved highly reliable with excellent performance.

Thanks to the power density of these engines, Avant has been able to match a large number of attachments to the machines, increasing their versatility. The compactness of the engine helps the design of the hood, making it very low, and gaining in operator visibility and consequently also in safety when maneuvering.

The close cooperation between Kohler and Avant Tecno during the regulatory transition from EU Stage IIIB to EU Stage V, aided by the same engine layout between the two emissions, allowed the machine to be upgraded to the new regulations without heavy design changes.

Meanwhile, Avant also took advantage of the technological innovation introduced by the Kohler gasoline engine with EFI electronic fuel injection to equip with the ECV730 (V-Twin gasoline 25HP vertical shaft) model having dual EU Stage V and EPA/CARB Certification the 225 multipurpose loader. It thus realized a very compact and versatile model that was very fuel efficient due to the electronic fuel injection and easy to maintain.

The Avant 225 loader represents a major step forward in compact loader innovation. Avant chose Kohler engines for reliability, power and fuel efficiency, features that can give multi-purpose loaders even better performance, enabling operators to work more efficiently and environmentally friendly in both Europe and North America.

The combination of Avant's technological excellence combined with the proven quality of Kohler engines has created added value for Avant's customers, ensuring that they receive state-of-the-art solutions.

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Cela

The collaboration between Cela and Kohler represents a major step forward in aerial platform innovation. A global benchmark in the aerial platform industry, Cela chose Kohler engines for reliability, power and efficiency, features that can give even better performance to their machines, enabling operators to work in a more efficient, optimized and environmentally friendly manner. The combination of Cela's technological excellence with the proven quality of Kohler engines creates added value for Cela's customers, ensuring that they receive leading-edge solutions.

"When we chose Kohler, the decision was driven by two main requirements: wanting to create the first large tracked platform that did not require an after-treatment system, and wanting to create the first large tracked platform that had truly low emissions," says Aldo Arcari, Cela plant manager. "This perfect match was conceived by Cela and Kohler, and it was expressed in the first hybrid engine we installed on our spiders, or 28- and 30-meter dual telescopic boom tracked platforms, called Spyder DT28 and DT30".

The Spyder Hybrid is equipped with a compact 18 kW Kohler diesel engine, hybridized with an electric engine that can draw energy from a powerful lithium-ion battery: it is K-HEM 1003, Stage V compliant and DPF-free, and such as to provide more than 30 kW of peak power without the need for exhaust after-treatment systems. Ordinary maintenance is thus simplified, downtime is canceled, and engine life cycle is extended.

Not only does the electric boost of up to 15kW allow the average power output of endothermic operations to be lowered (downsizing), but when low endothermic power is required, Kohler-Cela's Hybrid electric generation comes into play: the power unit allows the battery to be recharged, providing the operator with an optimized, contingency-free workday.

Cela Hybrid Spyder has a wide-range engine that has proven adequate for use in even the most demanding situations. It aims to be the key to upgrading existing, less versatile, and more polluting platforms. This prototype created jointly by Cela and Kohler is a cutting-edge concept that will soon be industrialized.

Cormidi

Cormidi is a renowned manufacturer of construction equipment, a leading-edge company in the South of Italy, making products that are highly appreciated both in Europe and North America as well as in faraway Australia.

Cormidi has chosen to offer in the U.S. and EU markets its C 55 and C 85 crawler dumpers with Kohler single-cylinder gasoline horizontal shaft engines, CH270 7HP and CH440 14HP, respectively. EU Stage V and EPA/CARB certified, they represent a product updated to the latest emissions regulations and equipped with some very useful pluses to improve the efficiency and durability of their products.

The additions that distinguish the single-cylinder, horizontal-shaft Kohler Command PRO range of engines, and which have improved the efficiency and reliability of these machines, can be found in three aspects: the higher power output compared to competitor engines, which allows for better utilization of the potential of the hydraulic system; the Heavy Duty air filter, which is particularly suitable in dusty environments such as construction sites; and the larger capacity fuel tank compared to competitor engines (+29% in the CH270 and +15% in the CH440), this allows for longer useful working time between refueling and thus reduces the percentage incidence of downtime.
Cormidi chose Kohler engines for reliability and power, features that can enable the machines to perform even better, allowing operators to work more efficiently and in a more environmentally friendly way in both Europe and North America. Cormidi's technological excellence coupled with the proven quality of Kohler engines has created added value for final customers.

JCB
The new JCB 90Z-2 midi excavators are the result of years of experience in designing and manufacturing crawler excavators. This new model features the latest generation Stage V-compliant engine and significant improvements in performance, comfort and ease of operation. All while delivering excellence in fuel economy, safety and reliability.
JCB's keywords for Kohler are many: quality, performance, robustness, low total cost of ownership and versatility. And they are all channeled into the answer given by the KDI 2504 on the 90Z excavator, which takes full advantage of its potential.
Confirmed in the hearts of many large machine manufacturers, especially following the challenges of the EU Stage V implementation, the performance of this engine is not just limited to paper, where it is capable of developing 55 kW and 300 Nm of torque. In fact, it also translates into machine driving pleasure and increased productivity, making these engines perfect for urban environments where limited noise and low fuel consumption are required.
The DPF regeneration strategy, which is smart and completely transparent to the operator, takes the hassle of the particulate filter away from the end user.
Hydraulic tappets, the Poly V belt, together with engine service intervals of at least 500 hours, make it possible to limit the total cost of ownership of the machine, thus also making it particularly attractive for the rental market.
Finally, high torque at low engine speeds enables the machine to be exceptionally responsive to transient loads during excavation operations, as well as maximizing work productivity by up to 10 percent. Highly technological and certified for multiple countries, the KDI engine allows JCB to have a range that can be sold in many countries around the world, while having a reliable partner for future emissions.

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Kramer-Werke

Manufacturer of wheel loaders and telehandlers for the agricultural and construction industries, Kramer uses the Kohler KDI 2504 TCR Stage V engine on its Series 5 models 5075, 5085 and 5095.

Known for its high-quality machines, the main features Kramer looks for in its engine choice are reliability and functionality. Kohler engines are modern, efficient and perform well, and they keep fuel consumption levels low.

With an output of 55.4 kW, the KDI 2504 TCR provides high-performance efficiency while keeping noise levels low. The engine is combined with a DOC and a diesel particulate filter (DPF), enabling it to effectively reduce emissions and meet Stage V standards. The Kohler engine is specifically designed to meet stringent Stage V exhaust emission regulations, ensuring Kramer-Werke's compliance and environmental sustainability.

The engine's compact size contributes to the overall maneuverability of Kramer models, enabling them to operate smoothly in typically offroad and dusty environments even with limited space. Despite its compact size, the Kohler engine delivers impressive power and torque, ensuring optimal performance and productivity even at low engine speeds.

Wille Machines

The Finnish company Wille Machines produces the most popular machines on the market for environmental management and maintenance of urban areas. Designed to operate in all four seasons, especially in winter when maintenance operations are more demanding and expensive, Finnish Wille needs engines that provide great power but that also respect the environment in which they operate.

This dual need is reflected in the choice of a Kohler engine for the Wille 675Δ, a low, agile, multifunctional wheel loader that can work smoothly even in narrow places. The Kohler 3404 Stage V engine is the most compact in its class, with a layout that facilitates installation. In addition, with a particulate filter and SCR catalytic converter that meets the latest emission standards, this engine makes the Wille 675Δ more environmentally friendly.

Kohler allows the use of HVO100, which is less polluting and renewable, as fuel. Unlike conventional biofuels, HVO is a renewable fuel derived from biological waste and 100% recycled. The use of HVO results in a reduction in overall CO_2 emissions of up to 90 percent, and due to the very low sulfur content, engine exhaust emissions also benefit.

Equipped with one of the most powerful operating hydraulic systems on the market, with two hydraulic circuits and a variable displacement pump with load sensing, this machine has a wide range of working attachments available.

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To meet the demands of the machine, even under the most extreme conditions such as a snow blower, the Kohler diesel engine provides 105 kW @ 2200 rpm and delivers an impressive 650 Nm @ 1400 rpm of torque. The KDI 3404 has the highest torque and power ratings in its class, delivering the same performance as larger displacement engines. High torque at low rpm enables maximum productivity and provides immediate response in all operating modes. The result is up to 15 percent higher productivity than other engines in the same class with the same level of emissions.

About Kohler Engines

Kohler has been manufacturing engines for more than a century and has continued to grow its product portfolio ever since its inception to increasingly bring ease and convenience to the lives of end users worldwide. The company offers a comprehensive range of diesel, petrol and gas 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 gardening). For more details, please visit kohlerengines.com.

About Kohler Energy

Kohler Energy, a global leader in distributed energy solutions, brings bold design and powerful impact to the energy systems that sustain people and communities everywhere around the world.

It is an integral part of Kohler Co., with solutions across Home Energy, Industrial Power Systems, and Powertrain Technologies. Leveraging the strength of its portfolio of brands – Power Systems, Home Energy, Kohler Uninterruptible Power, Clarke Energy, Heila Technologies, Curtis Instruments, and Engines, and more than a century of industry leadership, Kohler Energy builds resilience when the grid cannot and goes beyond functional, individual recovery to create better lives and communities. For more details, please visit kohler.com/energy.

About Kohler Co.

Founded in 1873, Kohler Co. is one of the oldest and largest private companies in the U.S., based in Kohler, Wisconsin. With more than 50 production plants worldwide, Kohler is a global leader in the manufacturing of engines, generators, kitchens and bathroom furnishings. In addition, it owns and operates two of the finest five-star luxury golf resorts in the world, one in Kohler, Wisconsin and the other in St. Andrews, Scotland.

For more details, please visit kohlercompany.com.

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