

KD15

Kohler Diesel 15

Kohler/Lombardini, a further step forward into the future

In order to meet ever increasing market demands, the Kohler/Lombardini group has been updating its range of air-cooled, single cylinder diesel engines. Now, we are pleased to present the new KD15-440 engine, which, with its advanced technical features, strengthens and improves the current 15LD engine series - elevating it to the very top of the class within its power range.

The 15LD440 model, already a market leader in numerous sectors including: - agriculture, construction, generating sets and pumps, has been substantially updated. Now re-branded as the KD15-440, the new engine has improved performance, reduced maintenance costs and increased ease of use for the operator.

Technical Features, Innovating the future

The new KD15-440 air-cooled single cylinder engine, with a displacement of 441 cc's, is becoming the "best in class" within its power range. Benefiting from its innovative air filter and tank, the KD15 model has become the ideal engine to provide the operator with the longest time between maintenance intervals. However, when required, the task to replace the filter cartridge is simplicity itself.

The longevity of the new air filter has proven to be five times greater than the current version. This result has been achieved thanks to a high efficiency separator with pre-filter and an accumulated-dust drain valve in the filter itself. Furthermore, the increased dimensions of the cartridge and the high filtration capacity of the paper element greatly enhances the engine protection, resulting in a considerable reduction in maintenance costs.

The new tank, with its modified components, greatly contributes to facilitating all maintenance operations due to some significant improvements, including a new fuel filter which is enhanced with additional pre-filter protection. The primary and safety filters, used in tandem, avoid the accidental entry of foreign particles during the fuel refilling process. The primary filter housed inside the tank is easily accessible and can be replaced without the use of any special tools.

The new drain tap also makes it possible to remove water and impurities which accumulate in the bottom of the tank, allowing for cleaning without the need to dismantle other components.

Finally, the new rubber-coated recoil pulley reduces noise levels down by one decibel, to improve operator comfort.

The Range, a new opportunity for the future

The KD15-440 engine is just the first to be up-dated of the new KD15 range. The complete range of new models are derived from the existing models within the 15LD series of engines;

Technical Specifications	Model			
	KD15-350	KD15-350S	KD15-440	KD15-440S
Cylinders	1	1	1	1
Stroke [mm]	66	66	76	76
Bore [mm]	82	82	86	86
Displacement [cc]	349	349	441	441
Power [kW@rpm]	5.5@3600	5.0@3600	8.0@3600	7.3@3600
Max. Torque [Nm@rpm]	16.6@2400	14.7@2200	24.5@2200	22.5@2100

By maintaining the same fixing points, overall dimensions and not altering the remote control connections, the new KD15 can be perfectly substituted for the preceding 15LD models.

The KD15-440 and KD15-440S engines will be available from February 2013, while the KD15-350 and KD15-350S models will follow within the end of 2013.

Optional extras:

A wide range of options for the new KD15 engine are available. These include options which contribute to an improvement in specification and performance:

- Drive, flywheel side (engines with electrical start)
- Drives with special flanging and shaft extensions
- Dynamic balancer
- Oil bath air filter
- Electrical start
- Operators control panel
- Emergency stop with solenoid valve
- Remote controls for accelerator and stop
- Mono-lever controls
- Control protection
- Fuel supply pump
- Oil pressure switch
- Oil thermostat
- Glow plugs on inlet manifold
- Noise protection on recoil starter
- Grass protection
- Air filter clogging indicator - when integrated into the engine configuration, this item makes it possible to clearly see when maintenance is required.
- Larger oil sump that increases the intervals between maintenance to 500 hours as opposed to 250 hours in standard versions.

About Global Power Group

Within the Kohler Global Power Group, Kohler Engines and its subsidiary Lombardini Srl respectively produce petrol engines (up to 30.0kW) and Diesel engines (up to 56.0kW) marketed throughout the world under the brand names of KOHLER and LOMBARDINI.

Also forming part of the Kohler Global Power Group are Kohler Power Systems and SDMO Industries, both manufacturers of generators (marine, residential, industrial and mobile) marketed throughout the world under the brand names KOHLER and SDMO.

Founded in 1873 in Kohler, Wisconsin, USA, Kohler Co. is one of the largest and oldest private companies in the United States. Kohler Companies incorporates a wide range of products within its numerous activities; from petrol engines to power stations, from ceramics to furniture, from hotel chains to golf courses

About Lombardini and KOHLER

Lombardini maintains a strong position as a market leader for expertise and manufacture of diesel engines up to 56kW. The Company has contributed to the group's growth since its acquisition in 2007 and is incorporated as an integral part of the Kohler Global Power Group. Synergy and integration are the key points of this partnership. Kohler manufactures and distributes model diesel single and twin

the key points of this partnership. Kohler manufactures, and distributes worldwide, single and twin cylinder petrol engines in the power range of 3 up to 30.0kW. It is household name in the US market, and its engines are used in numerous applications, but most commonly in the Lawn and Garden sector. Lombardini produces and distributes single and multi-cylinder diesel engines, covering a range of 3.5 up to 56kW, suited to a wide range of machinery in numerous sectors including agriculture, industrial, generating sets, construction, automotive and marine. Together in 2011, Kohler/Lombardini launched the KDI range (Kohler Direct Injection) range of 3 and 4 cylinder water cooled engines. Representing a considerable investment, these innovative engines comply with Stage IIIB/TIER 4 Final Emission legislations, without the need of a Diesel Particulate Filter (DPF), for outputs under 56kW.

The strong presence of both Kohler in the USA and Lombardini in Europe is supported by four commercial subsidiaries in France, Spain, Germany and the UK. This, together with ongoing development in all markets, creates a strong base for a widespread penetration of both new and existing products worldwide.

Promoting the future

All promotional material regarding the new engine, including the "Future never ends" presentation, is available on the site www.kohlernewproject.com.

The new KD15 will be on display during the next trade fairs:

- EIMA (Bologna, 7-11 November 2012)
- HIRE SHOW (Coventry, 6-7 February 2013)
- SIMA (Paris, 24- 28 February 2013)
- BAUMA (Munich 15- 21 April 2013)
- BATIMAT (Paris, 4-8 November 2013)
- AGRITECHNICA (Hannover, 12-16 November 2013)

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