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# 1100 Series

## 1104D-44TA

83 kW / 111 bhp at 2200 rpm



With the success of their 1100 Series, single platform engines, Perkins have taken development further with the introduction of the new 1100D range.

The 1100D range is the ultimate power solution and available with mechanical or electronic control. All electronically controlled models in this range now incorporate proven components of Caterpillar® ACERT™ Technology.

The 1100D range with their wide choice of build options, plus all the features and benefits, present a secure future for all our customers at Tier 3/Stage IIIA emissions legislation; and is the platform on which the long-term solution to Tier 4/Stage IIIB legislation will be built.

### Powered by Your Needs

- The 1100D range offers the possibility to move between different fuel system technologies and aspirations.
- The 1104D mechanical range offers a class-leading choice of aspirations. This includes turbocharged and turbo aftercooled models for use worldwide, with the addition of a naturally aspirated model for markets outside of the US.

### State of the Art Design

- Latest diesel technology development used in mechanical control system.
- Minimised impact on heat rejection and fuel consumption.

### Component Commonality

- Shared front and rear ends and 'repeated' components - pistons, con rods and valve gear.
- Rationalised inventory, streamlined training and consistent serviceability.

### Reduced Noise

- Noise minimised at source - engine sound levels have been reduced up to 1 dBA.
- Reduction in noise suppression costs.

### Lower Installation Costs

- Virtually identical hook-up points and envelope size as the 1104C model.
- Customer enjoys a seamless transition during the emissions changeover process.

### Lower Operating Costs

- Service intervals are 500 hours standard.
- Perkins comprehensive warranty cover for two years (up to 3,000 hours). With three years on major engine components.
- Low usage warranty package is also available.

### Product Support

- Through an experienced network of distributors and dealers, fully trained engine experts deliver total service support around the clock, 365 days a year. Service points around the world have a comprehensive suite of web based tools covering technical information, parts identification and ordering systems, all dedicated to maximising the productivity of your engine.
- Throughout the entire life of a Perkins engine, we provide access to genuine OE specification parts giving 100% reassurance that you receive the very best in terms of quality for lowest possible cost... wherever your Perkins powered machine is operating in the world.

Meets Tier 3, Stage IIIA emissions requirements. Tier 3 refers to EPA (US) standards. Stage IIIA refers to European standards.

Performance Data	Gross Intermittent (ISO 14396)	Speed (rev/min)
Power Output (kW)	83.0	2200
Power Output (bhp)	111.3	2200
Peak Torque (Nm)	418.0	1400
Peak Torque (lbf ft)	308.3	1400

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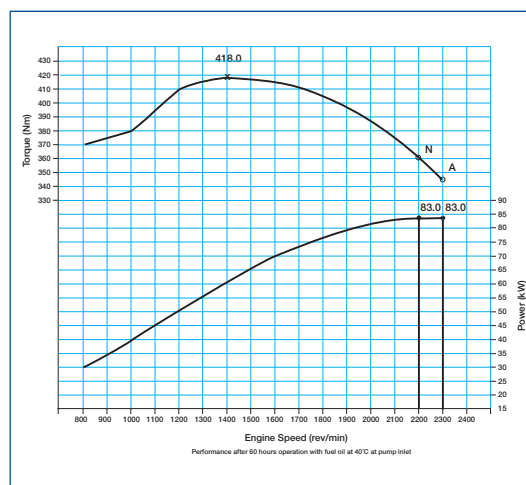
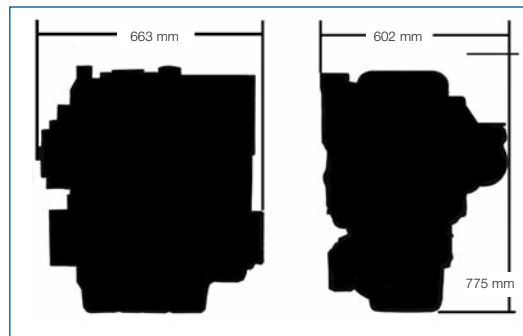
### Engine Specification

- Engine ratings
- SAE A or SAE B PTO drive
- Timing case and gear driven auxiliaries
- Flywheel housings
- Flywheel and starter rings
- Oil filter positions
- Adapter plates
- Starter motors
- Fan drives and locations
- Lubricating oil filters and breathers
- Front-end drives
- Alternators
- Belt driven auxiliaries
- Induction manifolds
- Exhaust manifolds
- Fuel filter positions
- Cold start aids
- Engine mountings
- Cooling packs
- Air compressor

### General Data

Number of cylinders	4 vertical in-line
Bore and stroke	105 mm x 127 mm
Displacement	4.4 litres
Aspiration	Turbocharged (air-to-air charge cooled)
Cycle	4 stroke
Combustion system	Direct injection
Compression ratio	16.2:1
Rotation	Anti-clockwise, viewed on flywheel
Cooling system	Liquid
Dimensions	Length 663 mm Width 620 mm Height 775 mm
Dry weight	306 kg

Final weight and dimensions will depend on completed specification.



Note: lower speed ratings cannot be read off this curve



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